

AD-A247 948

USAFETAC/DS--91/257

2



# SURFACE OBSERVATION CLIMATIC SUMMARIES

FOR

ELLSWORTH AFB,  
SOUTH DAKOTA

Prepared by

OL-A, USAFETAC  
ASHEVILLE, NORTH CAROLINA  
28801-2723



OCTOBER 1991

92-06481



SDIC  
DIRECT  
1992

APPROVED FOR PUBLIC RELEASE;  
DISTRIBUTION IS UNLIMITED

USAF  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

Scott Air Force Base, Illinois, 62225-5438

REVIEW AND APPROVAL STATEMENT

USAFETAC/DS-91/257, SURFACE OBSERVATION CLIMATIC SUMMARIES FOR ELLSWORTH AFB/RAPID CITY SD, OCTOBER 1991, HAS BEEN REVIEWED AND IS APPROVED FOR PUBLIC RELEASE. THERE IS NO OBJECTION TO UNLIMITED DISTRIBUTION OF THIS DOCUMENT TO THE PUBLIC AT LARGE, OR BY THE DEFENSE TECHNICAL INFORMATION CENTER (DTIC) TO THE NATIONAL TECHNICAL INFORMATION SERVICE (NTIS).

\_\_\_\_\_  
JOSEPH L. BOYTE  
CHIEF, CLIMATIC APPLICATIONS, OL-A

FOR THE COMMANDER

-----  
WALTER S. BURGMANN  
SCIENTIFIC AND TECHNICAL INFORMATION  
PROGRAM MANAGER



II

Accession For	
NTIS GRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A-1	

REPORT DOCUMENTATION PAGE

2. REPORT DATE: OCTOBER 1991
3. REPORT TYPE AND DATES COVERED: DATA SUMMARY, FEBRUARY 1939 TO FEBRUARY 1991
4. TITLE AND SUBTITLE: SURFACE OBSERVATION CLIMATIC SUMMARIES (SOCS) FOR ELLSWORTH AFB, SOUTH DAKOTA
7. PERFORMING ORGANIZATION NAME AND ADDRESS: OPERATING LOCATION A, USAFETAC, FEDERAL BUILDING, ASHEVILLE, NC 28801-2723
8. PERFORMING ORGANIZATION REPORT NUMBER: USAFETAC/DS-91/257
9. SPONSORING/MONITORING AGENCY NAME AND ADDRESS: USAF ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER (USAFETAC), SCOTT AFB, IL 62225-5438
11. SUPPLEMENTARY NOTES: EFFECTIVE JULY 1 1988, THIS PRODUCT REPLACED TWO USAFETAC DOCUMENTS FORMERLY KNOWN AS THE REVISED UNIFORM SUMMARY OF SURFACE OBSERVATIONS (RUSSWO) AND THE LIMITED SURFACE OBSERVATIONS CLIMATIC SUMMARY (LISOCs). EXISTING RUSSWOS AND LISOCs WILL CONTINUE IN USE, BUT WILL EVENTUALLY BE BY A SOCS.
- 12A. DISTRIBUTION/AVAILABILITY STATEMENT: APPROVED FOR PUBLIC RELEASE, DISTRIBUTION IS UNLIMITED.
13. ABSTRACT: SURFACE OBSERVATION CLIMATIC SUMMARIES (SOCS) PROVIDE STATISTICAL CLIMATIC SUMMARIES OF SURFACE WEATHER OBSERVATIONS TAKEN AND RECORDED AT SPECIFIED USAF, CIVILIAN AND FOREIGN OBSERVING STATIONS. HOURLY OBSERVATIONS ARE SUMMARIZED FROM A 10-YEAR PERIOD OF RECORD (POR). "SUMMARY OF DAY" (SOD) INFORMATION IS SUMMARIZED FROM ALL AVAILABLE DATA IN THE OL-A, USAFETAC CLIMATIC DATABASE.
14. SUBJECT TERMS: CLIMATOLOGY, METEOROLOGICAL DATA, ATMOSPHERIC PHENOMENA, WEATHER, SOCS, ELLSWORTH AFB, SOUTH DAKOTA, CEILING, CLOUD COVER, SNOW DEPTH, HUMIDITY, PRESSURE, PRECIPITATION, SNOW TEMPERATURE, VISIBILITY, WIND.
15. NUMBER OF PAGES: 375
17. SECURITY CLASSIFICATION OF REPORT: UNCLASSIFIED
18. SECURITY CLASSIFICATION OF THIS PAGE: UNCLASSIFIED
19. SECURITY CLASSIFICATION OF ABSTRACT: UNCLASSIFIED
20. LIMITATION OF ABSTRACT: UL

DTIC STANDARD FORM 298

#### PREFACE

EFFECTIVE 1 JULY 1988, THE SURFACE OBSERVATION CLIMATIC SUMMARIES (SOCS) REPLACED TWO OTHER USAFETAC PRODUCTS OF LONG STANDING: THE RUSSWO (REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS) AND LISOCS (LIMITED SURFACE OBSERVATION CLIMATIC SUMMARY). RUSSWOS AND LISOCS NOW IN EXISTENCE WILL CONTINUE TO BE USED UNTIL THEY ARE EVENTUALLY REPLACED BY SOCS.

THIS PRODUCT HAS BEEN ISSUED IN OTHER FORMS UNDER SEVERAL OTHER NAMES. IT WAS INTRODUCED IN THE EARLY 1940'S AS THE "SFCSUM," OR "SURFACE SUMMARY." THE ORIGINAL "USSWO," OR "UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS," DEBUTED IN 1946. THE USSWO GRADUALLY EVOLVED INTO THE "RUSSWO" AND THE "LISOCS." IT FINALLY BECAME THE NEW "SURFACE OBSERVATION CLIMATIC SUMMARIES" OR "SOCS" IN JULY 1988.

THE SOCS (LIKE ITS PREDECESSORS) IS PREPARED BY USAFETAC'S OPERATING LOCATION A AT ASHEVILLE, NC 28801-2723. HERE, CLIMATOLOGISTS USE STATE-OF-THE-ART COMPUTER TECHNOLOGY TO SUMMARIZE WEATHER OBSERVATIONS COLLECTED FROM SELECTED MILITARY, CIVILIAN, AND FOREIGN REPORTING STATIONS. SUMMARIES ARE PREPARED FROM DATA THAT HAS BEEN COLLECTED, QUALITY-CONTROLLED, AND STORED IN OL-A'S WORLDWIDE SURFACE WEATHER OBSERVATION DATABASE.

ALTHOUGH PREVIOUS VERSIONS OF THIS PRODUCT ONLY OFFERED SIX PARTS, SOCS PROVIDES EIGHT (A-H). THE ADDITIONS ARE THE CROSSWIND AND HEATING-COOLING DEGREE DAY SUMMARIES. PRECEDING EACH PART IS A BRIEF DISCUSSION OF THAT PARTICULAR PART, A DESCRIPTION OF THE DATA, AND AN EXPLANATION OF HOW THE DATA IS PRESENTED.



# CONTENTS

INTRODUCTION.....	1
STATION PERIOD OF RECORD.....	1
DATA SOURCES.....	1
TERMS EXPLAINED.....	1
TIME CONVENTIONS.....	2
ABBREVIATIONS.....	2
SUMMARY DESCRIPTIONS.....	2
STATION HISTORY.....	3
PART A - ATMOSPHERIC PHENOMENA SUMMARIES.....	A-1-1
SPECIFIED PHENOMENA	
PERCENT OCCURRENCE FREQUENCY (FROM HOURLY OBS).....	A-2-1
PERCENT OCCURRENCE FREQUENCY (FROM SOD DATA).....	A-3-1
PERCENT OCCURRENCE FREQUENCY (THUNDERSTORMS).....	A-4-1
VERSUS WIND DIRECTION--PERCENT OCCURRENCE FREQUENCY.....	A-5-1
PART B - PRECIPITATION, SNOWFALL, AND SNOW DEPTH.....	B-1-1
PRECIPITATION	
PERCENT OCCURRENCE FREQUENCY.....	B-2-1
MONTHLY TOTALS.....	B-2-2
DAILY EXTREMES.....	B-2-3
SNOWFALL	
PERCENT OCCURRENCE FREQUENCY.....	B-3-1
MONTHLY TOTALS.....	B-3-2
DAILY EXTREMES.....	B-3-3
SNOW DEPTH	
PERCENT OCCURRENCE FREQUENCY.....	B-4-1
DAILY EXTREMES.....	B-4-2
SNOWFALL/SNOW DEPTH	
FIRST AND LAST DAYS OF OCCURRENCE BY SNOW-YEAR.....	B-5-1
PART C - SURFACE WIND	
PEAK WINDS (FROM SOD DATA).....	C-2-1
PEAK WINDS--PERCENT OCCURRENCE FREQUENCY (FROM SOD DATA).....	C-3-1
WIND DIRECTION VS WIND SPEED--POF (FROM HOURLY OBS).....	C-4-1
PART D - CEILING, VISIBILITY AND SKY COVER	
CEILING VS VISIBILITY--POF (FROM HOURLY OBS).....	D-2-1
SKY COVER--POF (FROM HOURLY OBS).....	D-3-1

PART E - TEMPERATURE AND RELATIVE HUMIDITY.....	E-1-1
TEMPERATURES--CUMULATIVE POF (FROM SOD DATA)	
MAXIMA.....	E-2-1
MINIMA.....	E-2-2
MEAN.....	E-2-3
MONTHLY TEMPERATURES (FROM SOD DATA)	
MAXIMA.....	E-3-1
MINIMA.....	E-3-2
MEAN.....	E-4-1
DRY BULB, WET BULB, DEW POINT TEMPERATURES (FROM HOURLY OBS)	
DRY BULB.....	E-5-1
WET BULB.....	E-5-2
DEW POINT.....	E-5-3
RELATIVE HUMIDITY (FROM HOURLY OBS)	
CUMULATIVE PERCENT OCCURRENCE FREQUENCY.....	E-6-1
PART F - PRESSURE (FROM HOURLY OBS).....	F-1-1
SEA LEVEL PRESSURE.....	F-2-1
ALTIMETER SETTING.....	F-3-1
STATION PRESSURE.....	F-4-1
PART G - CROSSWIND SUMMARIES (FROM HOURLY OBS).....	G-1-1
PERCENT OCCURRENCE FREQUENCY.....	G-2-1
PART H - DEGREE DAY SUMMARIES (FROM HOURLY OBS).....	H-1-1
HEATING DEGREE DAYS.....	H-2-1
COOLING DEGREE DAYS.....	H-3-1

\*\*\* NOTE: THE AWS CLIMATIC BRIEF IS ATTACHED AT THE END OF THE SOCS \*\*\*

## INTRODUCTION

### STATION PERIOD OF RECORD.

HOURLY OBSERVATIONS: MAR 81 - FEB 91 (AIRWAYS).

SUMMARY OF DAY DATA: FEB 39 - JUN 45, APR 48 - FEB 91 (FULL TIME).

HOURS SUMMARIZED: 0000 LST THROUGH 2300 LST.

DATA SOURCES. THESE SUMMARIES ARE COMPILED FROM "HOURLY OBSERVATIONS" AND/OR SUMMARY OF DAY DATA," DEPENDING ON THE PHENOMENA OR OCCURRENCE BEING SUMMARIZED. THE TWO SOURCES ARE DEFINED IN "TERMS EXPLAINED."

### TERMS EXPLAINED:

BIVARIATE DISTRIBUTION: A BIVARIATE DISTRIBUTION GIVES THE JOINT DISTRIBUTIONS OF TWO RELATED VARIABLES. AN EXAMPLE IS THE BIVARIATE DISTRIBUTION OF CEILING AND VISIBILITIES IN PART D. EACH ROW AND EACH COLUMN OF A BIVARIATE DISTRIBUTION IS A FREQUENCY DISTRIBUTION. JOINT FREQUENCIES ARE FOUND AT THE ROW-COLUMN INTERSECTIONS.

HOURLY OBSERVATIONS: ALL RECORD OR RECORD-SPECIAL OBSERVATIONS ON AWS FORMS 10/10A (OR EQUIVALENT) AT SCHEDULED HOURLY INTERVALS.

SUMMARY OF DAY (SOD) DATA: DATA COMPILED FROM ALL AVAILABLE OBSERVATIONAL SOURCES, INCLUDING HOURLY OBSERVATIONS, SPECIAL OBSERVATIONS, REMARKS, AND ACTUAL "SUMMARY OF DAY" DATA RECORDED IN COLUMNS 44-73 OF AWS FORMS 10/10A (OR EQUIVALENT) FOR ANY GIVEN DAY. NOTE: EXTREMES OCCURRING DURING NON-OPERATIONAL HOURS AND/OR DAYS ARE NOT REFLECTED IN THESE SUMMARIES.

MEAN: THE SUM OF ALL THE VALUES DIVIDED BY THE NUMBER OF VALUES.

MEASURABLE AMOUNT: ANY PRECIPITATION OR SNOWFALL AMOUNT GREATER THAN A TRACE.

MEDIAN: THE MIDDLE VALUE WHEN THE VALUES ARE IN ASCENDING ORDER. IF THE NUMBER OF VALUES IS EVEN, THE MEDIAN IS HALFWAY BETWEEN THE TWO MIDDLE VALUES.

PERCENT OCCURRENCE FREQUENCY (POF): IN STATISTICS, FREQUENCY IS THE NUMBER OF TIMES A GIVEN COUNT OR EVENT OCCURS. IN THE SOCS, THIS IS EXPRESSED AS THE PERCENT OCCURRENCE FREQUENCY (POF), WHERE THE FREQUENCY (NUMBER OF OCCURRENCES) IS GIVEN AS A PERCENT OF ALL POSSIBLE OCCURRENCES IN THE SAMPLE (PERIOD SUMMARIZED). FOR EXAMPLE, IF SNOW FELL ON 5 OUT OF 100 DAYS WE COULD EXPRESS THE "PERCENT OCCURRENCE FREQUENCY" OF SNOW AS 5 PERCENT OVER THE 100-DAY PERIOD. MAY BE USED INTERCHANGEABLY WITH "PERCENT FREQUENCY OF OCCURRENCE."

PERIOD OF RECORD: THE SIZE OF THE OBSERVATIONAL DATA SAMPLE, IN YEARS.

PRECIPITATION: A TERM THAT INCLUDES BOTH LIQUID PRECIPITATION AND WATER EQUIVALENT.

STANDARD DEVIATION: A MEASURE OF DISPERSION ON THE VARIABILITY OF THE QUANTITY CONCERNED ABOUT ITS ARITHMETIC MEAN. THE LARGER THE STANDARD DEVIATION, THE GREATER THE VARIABILITY.

TIME CONVENTIONS: ALL TIMES IN THE SOCS ARE EXPRESSED IN LOCAL STANDARD TIME (LST). USERS SHOULD MAKE ADJUSTMENTS FOR DAYLIGHT SAVING TIMES IN THEIR AREAS. IN SUMMARIES THAT SHOW DIURNAL VARIATIONS, THE DATA IS SUMMARIZED USING THE FOLLOWING STANDARD 3-HOUR PERIODS (ALL LST):

0000-0200	1200-1400
0300-0500	1500-1700
0600-0800	1800-2000
0900-1100	2100-2300

NOTE 1. DURING PART TIME PERIODS, THE FIRST AND LAST 3-HOUR PERIODS MAY HAVE SIGNIFICANT SHORTFALLS IN OBSERVATION COUNTS.

ABBREVIATIONS USED:

AMT	AMOUNT	LT	LESS THAN
ANN	ANNUAL	M	METER
BARO	BAROMETER	MB	MILLIBAR
C	CENTIGRADE (CELSIUS)	MPS	METERS PER SECOND
DEG	DEGREE	MSL	MEAN SEA LEVEL
DB	DRY BULB TEMPERATURE	MEAS	MEASURABLE
DP	DEW POINT TEMPERATURE	NO.	NUMBER
EQ	EQUAL	OBS	OBSERVATION
F	FAHRENHEIT	OBST	OBSTRUCTION
FRZG	FREEZING	POF	PERCENT OCCURRENCE FREQUENCY
FT	FEET	PRECIP	PRECIPITATION
GE	GREATER THAN OR EQUAL TO	SD	STANDARD DEVIATION
GMT	GREENWICH MEAN TIME	SOD	SUMMARY OF DAY
GT	GREATER THAN	TEMP	TEMPERATURE
HG	INCHES OF MERCURY	TSTM	THUNDERSTORM
HT	HEIGHT	VSBY	VISIBILITY
KTS	KNOTS	VSN	VISION
LE	LESS THAN OR EQUAL TO	WB	WET BULB TEMPERATURE
LST	LOCAL STANDARD TIME	WBAN	AWS FORM 10/10A
		UTC	*COORDINATED UNIVERSAL TIME

SUMMARY DESCRIPTION: A BRIEF DESCRIPTION OF THE DATA PRECEDES EACH PART IN THE SOCS.

\* UTC REPLACED GMT ON 1 AUGUST 1988

NOTE: OL-A/USAFETAC DERIVES STATION LATITUDE/LONGITUDE COORDINATES AND AIRFIELD ELEVATION DATA FROM THE AWS MASTER STATION CATALOG. THIS INFORMATION IS PRESENTED ON THE AWS CLIMATIC BRIEF FOR EACH STATION. THE STATION DATA MAY DIFFER FROM INFORMATION CONTAINED IN THE SOCS STATION HISTORY (DATA SUPPLIED BY AWS UNITS). THE STATION DATA MAY ALSO VARY FROM DATA PRESENTED IN DOD FLIGHT INFORMATION PUBLICATIONS (FLIP).

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	FLD ELEV (FT)	CALL SIGN	WMO NMNR
726625	ELLSWORTH AFB/RAPID CITY, SD	N 44 09	W 103 06	3278	RCA	

  

STATION LOCATION AND INSTRUMENTATION HISTORY									
Nmbr of Loc	GEOGRAPHICAL LOCATION & NAME	Type of Station	At This Location		LATITUDE	LONGITUDE	Elev Above MSL		OBS PER DAY
			From	To			FLD (FT)	BARO (FT)	
1	Rapid City AAF, SD	AAF	Feb 39	Jun 44	N 44 08	W 103 06	3210	3190	24
2	Same *	Same	Jul 44	May 48	Same	W 103 05	3196	3189	24
3	Rapid City AFB, SD	AFB	Jun 48	Mar 54	N 44 09	W 103 06	3246	3215	24
4	Ellsworth AFB, SD	Same	Apr 54	Feb 58	Same	Same	Same	Same	24
5	Same	Same	Mar 58	Mar 84	Same	Same	3276	Same	24
6	Same	Same	Apr 84	Aug 87	Same	W 103 08	Same	Same	24
7	Same	Same	Sep 87	Jan 88	Same	W 103 06	3278	3216	24
* Station closed Jul 45--Mar 48									

  

Nmbr of Loc	Date of Change	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIP- MENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1	Feb 39	Not available	Anemometer	N/A	N/A	
2	Jun 50	Atop control tower	Selsyn	ML-14i	100 ft	
3	Jun 55	Same	AN/GMQ-11	RO-2	107 ft	
4	Apr 56	1200' SW of wea stn, ctr of rwy	Same	Same	13 ft	
5	May 64	1.800' fm ctrln, 1700' fm end rwy 30	AN/GMQ-20	RO-2A	20 ft	
		2.730' fm ctrln, 500' fm end rwy 12	Same		28 ft	
6	Jan 71	1.887' fm ctrln, 1886' fm end rwy 30	Same	RO-362	Same	
		2.730' fm ctrln, 892' fm end rwy 12	Same		Same	
7	Jan 88	1. Same	Same	Same	Same	
		2. Same	Same		Same	



PPPPPPPP	AAAAAA	RRRRRRRR	TTTTTTTTTT	AAAAAA
PPPPPPPP	AAAAAAAA	RRRRRRRR	TTTTTTTTTT	AAAAAAAA
PP PP	AA AA	RR RR	TT	AA AA
PP PP	AA AA	RR RR	TT	AA AA
PPPPPPPP	AA AA	RRRRRRRR	TT	AA AA
PPPPPPPP	AAAAAAAAAA	RRRRRRRR	TT	AAAAAAAAAA
PP	AAAAAAAAAA	RR RR	TT	AAAAAAAAAA
PP	AA AA	RR RR	TT	AA AA
PP	AA AA	RR RR	TT	AA AA
PP	AA AA	RR RR	TT	AA AA

PART A

ATMOSPHERIC PHENOMENA SUMMARIES

THIS PART SUMMARIZES SPECIFIED ATMOSPHERIC PHENOMENA IN CATEGORIES AS FOLLOWS:

THUNDERSTORMS: ALL REPORTED OCCURRENCES OF THUNDERSTORMS, TORNADOES, AND WATERSPOUTS.

LIQUID PRECIPITATION: RAIN OR DRIZZLE FALLING TO THE GROUND BUT NOT FREEZING.

FREEZING PRECIPITATION: FREEZING RAIN OR FREEZING DRIZZLE (GLAZE).

FROZEN PRECIPITATION: SNOW, SNOW PELLETS, SLEET, SNOW GRAINS, ICE CRYSTALS, ICE PELLETS. IN JANUARY 1968, SNOW PELLETS BECAME KNOWN AS SMALL HAIL.

HAIL: ALL OCCURRENCES OF HAIL.

ALL PRECIPITATION: INCLUDES ALL OBSERVATIONS REPORTING PRECIPITATION. BECAUSE MORE THAN ONE TYPE OF PRECIPITATION MAY BE INCLUDED IN THE SAME OBSERVATION, THE SUM OF PERCENTAGES IN THE INDIVIDUAL CATEGORIES MAY EXCEED THE PERCENTAGES IN THIS CATEGORY.

FOG: INCLUDES ALL REPORTED FOG, ICE FOG, AND GROUND FOG.

SMOKE AND/OR HAZE: SMOKE, HAZE, OR COMBINATIONS OF THE TWO.

BLOWING SNOW: ALL REPORTS OF BLOWING SNOW, INCLUDING DRIFTING SNOW, WHEN REPORTED.

DUST AND/OR SAND: DUST, SAND, BLOWING DUST, BLOWING SAND, OR COMBINATIONS OF THESE.

BLOWING SPRAY: THE "ALL OBSTRUCTIONS TO VISION" CATEGORY ACCOUNTS FOR BLOWING SPRAY, IF AND AS REPORTED.

ALL OBSTRUCTIONS TO VISION: THIS CATEGORY INCLUDES ALL REPORTS OF OBSTRUCTIONS TO VISION. SINCE THE OCCURRENCE OF MORE THAN ONE OBSTRUCTION TO VISION MAY BE REPORTED IN THE SAME OBSERVATION, THE SUM OF THE PERCENTAGES IN THE INDIVIDUAL CATEGORIES MAY EXCEED THE PERCENTAGES IN THIS CATEGORY.

SPECIFIED PHENOMENA--PERCENT OCCURRENCE FREQUENCY.

THESE TABLES GIVE THE PERCENT OCCURRENCE FREQUENCY (POF) FOR THE ATMOSPHERIC PHENOMENA SHOWN. THE DATA WAS TAKEN FROM HOURLY OBSERVATIONS ONLY, AND IS SUMMARIZED AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).



SPECIFIED PHENOMENA--PERCENT OCCURRENCE FREQUENCY (POF).

THIS TABLE IS THE ONLY ONE IN PART A THAT IS PRODUCED FROM SUMMARY OF DAY DATA. DATA IS SUMMARIZED MONTHLY AND ANNUALLY FOR ALL YEARS COMBINED.

THUNDERSTORMS--PERCENT OCCURRENCE FREQUENCY.

THIS TABLE GIVES THE PERCENT OCCURRENCE FREQUENCY OF THUNDERSTORMS REPORTED ON THE HOURLY OBSERVATION. DATA IS SUMMARIZED SAME AS FOR FIRST TABLE IN THIS PART.

SPECIFIED PHENOMENA VS WIND DIRECTION--PERCENT OCCURRENCE FREQUENCY.

THESE TABLES INCLUDE SUMMARY OF MONTH FOR ALL HOURS AND YEARS COMBINED. WIND DIRECTION CATEGORIES ARE AS SPECIFIED BY THE LOCAL WEATHER STATION.

NOTE 1: REPORTING PRACTICES HAVE CHANGED WITH TIME. METAR AND SYNOPTIC REPORTING STATIONS RECORD (ON AWS FORMS 10/10A) AND TRANSMIT LONGLINE ONLY THE HIGHEST ORDER ATMOSPHERIC PHENOMENA THAT AFFECTS VISIBILITY. METAR STATIONS STARTED THIS PROCEDURE IN JANUARY 1968, BUT SYNOPTIC STATIONS ALWAYS DID IT THAT WAY. IN JANUARY 1970, METAR STATIONS STARTED RECORDING ALL ATMOSPHERIC PHENOMENA THAT AFFECTED VISIBILITY, BUT CONTINUED TO TRANSMIT ONLY THE HIGHEST ORDER. FOR EXAMPLE, IF THE RECORDED OBSERVATION INCLUDED RAIN, FOG AND HAZE, ONLY THE RAIN WAS TRANSMITTED. BECAUSE OF THESE PROCEDURES, THE USAFETAC DATABASE WOULD SHOW ONLY RAIN AS AN OBSTRUCTION. THEREFORE, THE OBSTRUCTION TO VISION (AND TO A LESSER EXTENT, PRECIPITATION) SUMMARIES FOR METAR AND SYNOPTIC STATIONS ARE HIGHLY QUESTIONABLE.

NOTE 2: FOREIGN METAR REPORTING STATIONS FREQUENTLY DO NOT TRANSMIT OBSTRUCTIONS TO VISION WHEN VISIBILITIES EXCEED 1000 METERS.

NOTE 3: A VALUE OF ".0" IN ANY SUMMARY REPRESENTS ONE OR MORE OCCURRENCES THAT, IN AGGREGATE, AMOUNT TO LESS THAN .05 PERCENT.

NOTE 4: DURING PART TIME PERIODS, THESE TABLES MAY NOT ACCURATELY REFLECT NIGHTTIME AND/OR WEEKEND OCCURRENCES OF CERTAIN PHENOMENA.

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JAN

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02		1.0	.6	12.5		14.1	2.9		1.4		18.4	930
03-05		.4	.4	14.3		15.2	4.2		2.8		22.2	930
06-08		.3	.9	15.3		16.5	4.8		1.7		23.0	930
09-11		.5	.3	14.0		14.8	6.0	.2	2.4		23.4	930
12-14		.3	.2	11.5		12.0	5.1		2.8		19.9	930
15-17		.9		9.0		9.9	3.8		2.2		15.8	930
18-20		1.3	.6	11.8		13.8	3.2		1.5		18.5	930
21-23		.8	.5	14.2		15.5	2.4		1.6		19.5	930
ALL HOURS		.7	.5	12.8		14.0	4.0	.0	2.0		20.1	7440

MONTH: FEB

00-02		1.1		17.1		18.2	5.3		1.5		25.1	846
03-05		.7	.1	18.9		19.7	4.4		.8		24.9	846
06-08		.2	.8	16.0		17.0	5.2	.1	1.4		23.8	846
09-11		.7	.6	13.5		14.8	6.9	.2	1.7		23.5	846
12-14		1.2		12.1		13.2	4.5	.2	1.9		19.9	846
15-17		.5		14.0		14.4	2.6	.2	2.5		19.8	845
18-20		.8		15.1		15.9	3.1		2.4		21.4	843
21-23		.8		16.7		17.6	3.1		1.7		22.3	843
ALL HOURS		.8	.2	15.4		15.4	4.4	.1	1.7		22.6	6761

A - 2 - 1

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAR

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02		4.3	.5	15.7		20.5	6.6		2.3		29.4	930
03-05		2.9	.2	16.2		19.4	6.6		3.0		28.9	930
06-08		2.8	.6	15.4		18.8	11.0		3.9		33.7	930
09-11		3.7	.8	16.2		20.6	9.7	.2	3.4		34.0	930
12-14		2.9	.3	14.5		17.7	6.9	.4	3.0		28.1	930
15-17		3.9	.1	12.7		16.7	5.1	.1	2.0		23.9	930
18-20	.2	2.8	.2	13.4		16.5	5.7		2.0		24.2	930
21-23		3.3	.1	15.4		18.8	5.8		2.8		27.4	930
ALL HOURS	.0	3.3	.4	14.9		18.6	7.2	.1	2.8		28.7	7440

MONTH: APR

00-02		4.3	.2	8.9		13.4	3.0		1.8		18.2	900
03-05		3.3		9.2		12.6	3.0		1.8	.3	17.7	900
06-08	.1	5.2		8.6		13.8	5.9		1.7	.3	21.7	900
09-11		5.7		8.3		14.0	5.7	.1	1.7	.2	21.7	900
12-14		6.7		8.6		15.2	5.0	.1	1.9		22.2	900
15-17	.7	7.3		7.6		14.9	3.8	.1	1.8		20.6	900
18-20	.2	4.9	.1	7.2		12.2	4.0		2.0	.3	18.6	900
21-23	.2	4.7	.6	8.3		13.6	2.6		1.7		17.8	900
ALL HOURS	.2	5.3	.1	8.3		13.7	4.1	.0	1.8	.2	19.8	7200

A - 2 - 2

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAY

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02	1.2	12.6		.5		13.1	3.5				16.7	930
03-05	.5	11.8		.5		12.4	6.3				18.7	930
06-08	.4	10.6		.4		11.1	8.3				19.4	930
09-11	.3	11.0		.5		11.5	4.8				16.3	930
12-14	3.1	13.2		.9	.2	14.3	4.5				18.8	930
15-17	2.6	12.6		.4	.1	13.1	3.1				16.2	930
18-20	2.5	12.8	.1	.4	.1	13.4	4.2				17.6	930
21-23	1.4	12.7		1.0		13.7	2.9				16.6	930
ALL HOURS	1.5	12.2	.0	.6	.1	12.8	4.7				17.5	7440

MONTH: JUN

00-02	4.1	9.8				9.8	1.2				11.0	900
03-05	1.1	8.3				8.3	2.3				10.7	900
06-08	.6	7.8				7.8	3.6				11.3	900
09-11	.4	5.9				5.9	2.1			.1	8.1	900
12-14	2.7	6.9				6.9	.8	.1			7.8	900
15-17	5.3	8.2				8.2	.6				8.8	900
18-20	4.0	6.9				6.9	.7				7.6	900
21-23	4.7	9.0				9.0	1.1				10.1	900
ALL HOURS	2.9	7.8				7.8	1.5	.0		.0	9.4	7200

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUL

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02	2.5	5.8				5.8	1.5	.1			7.4	930
03-05	.6	4.0				4.0	2.7	.1			6.8	930
06-08	.6	4.1				4.1	3.0	.4			7.5	930
09-11	.5	2.7			.1	2.8	1.1	.1		.1	4.1	930
12-14	3.3	4.4				4.4	.2	.2			4.8	930
15-17	6.3	8.2				8.2	.4	.3			8.9	930
18-20	4.8	7.0				7.0	.6	.2			7.8	930
21-23	3.1	6.1				6.1	1.2	.1			7.4	930
ALL HOURS	2.7	5.3			.0	5.3	1.3	.2		.0	6.9	7440

MONTH: AUG

00-02	2.2	4.5				4.5	.8				5.3	930
03-05	.5	3.1				3.1	1.6				4.7	930
06-08	.4	3.8				3.8	2.2				5.9	930
09-11	.5	2.9				2.9	.8	.1			3.8	930
12-14	3.8	3.9			.1	4.0	.3	.3			4.6	930
15-17	5.1	4.7			.2	4.9	.4				5.4	930
18-20	4.9	4.6				4.6	.2				4.8	930
21-23	3.3	4.5			.1	4.6		.1			4.7	930
ALL HOURS	2.6	4.0			.1	4.1	.8	.1			4.9	7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: SEP

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02	1.1	8.4		.6		9.0	3.6				12.6	900
03-05	.2	9.0		1.0		10.0	4.8				14.8	900
06-08	.1	8.7		1.6		10.2	6.4	.2			16.9	900
09-11	.1	6.9		1.1		8.0	4.7	.7			13.3	900
12-14	.2	6.3		1.7		8.0	3.0	.7			11.7	900
15-17	.6	6.0		.8		6.8	3.2	.6			10.6	900
18-20	1.4	7.4		.7		8.1	2.2	.1			10.4	900
21-23	.7	8.9		.9		9.8	2.8				12.6	900
ALL HOURS	.6	7.7		1.0		8.7	3.8	.3			12.8	7200

MONTH: OCT

00-02	.3	6.3		2.0		8.4	2.5			.1	11.0	930
03-05		5.5		3.1		8.6	3.2		.1		11.9	930
06-08	.2	5.7		3.3		9.0	3.9	.1	.5		13.5	930
09-11	.1	6.2		3.0		9.2	2.8	.1	.5		12.7	930
12-14		5.7		2.2		7.8	2.4	.1			10.3	930
15-17		6.2		1.8		8.1	2.6	.2	.1		11.0	930
18-20	.3	5.9		2.7		8.6	1.1				9.7	930
21-23	.4	7.3		2.9		10.2	1.5				11.7	930
ALL HOURS	.2	6.1		2.6		8.8	2.5	.1	.2	.0	11.5	7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: NOV

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02		1.9	.1	9.8		11.8	2.9		1.2		15.9	900
03-05		1.9	.7	9.8		12.3	4.3		1.2		17.9	900
06-08		1.9	.6	9.8		12.2	5.3		1.1		18.7	900
09-11		1.7	.4	9.1		11.2	4.1		1.2		16.6	900
12-14		1.7	.2	8.9		10.8	3.4		1.6		15.8	900
15-17		2.4	.2	8.1		10.8	2.8		1.3		14.9	900
18-20		3.4	.3	9.1		12.9	3.2		1.7		17.8	900
21-23		3.4	.3	9.4		13.2	3.2		.9		17.3	900
ALL HOURS		2.3	.4	9.3		11.9	3.7		1.3		16.8	7200

MONTH: DEC

00-02		.8	.9	17.0		18.6	3.4		2.2		24.2	930
03-05		.2	.4	16.2		16.9	3.4		1.9		22.3	930
06-08		.3	.4	16.1		16.9	4.1		2.5		23.4	930
09-11	.1	.6	.2	14.5		15.4	4.1		3.5		23.0	930
12-14		.8	.2	11.2		12.2	3.4	.1	3.7		19.4	930
15-17		1.0	.1	11.6		12.7	3.1	.1	3.4		19.4	930
18-20		1.3	.3	13.5		15.2	2.7		2.8		20.6	930
21-23		1.8	.6	15.1		17.5	2.6		2.4		22.5	930
ALL HOURS	.0	.8	.4	14.4		15.7	3.4	.0	2.8		21.8	7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF VARIOUS ATMOSPHERIC PHENOMENA  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
HOURS: ALL

MONTH	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
JAN		.7	.5	12.8		14.0	4.0	.0	2.0		20.1	7440
FEB		.8	.2	15.4		16.4	4.4	.1	1.7		22.6	6761
MAR	.0	3.3	.4	14.9		18.6	7.2	.1	2.8		28.7	7440
APR	.2	5.3	.1	8.3		13.7	4.1	.0	1.8	.2	19.8	7200
MAY	1.5	12.2	.0	.6	.1	12.8	4.7				17.5	7440
JUN	2.9	7.8				7.8	1.5	.0		.0	9.4	7200
JUL	2.7	5.3			.0	5.3	1.3	.2		.0	6.9	7440
AUG	2.6	4.0			.1	4.1	.8	.1			4.9	7440
SEP	.6	7.7		1.0		8.7	3.8	.3			12.8	7200
OCT	.2	6.1		2.6		8.8	2.5	.1	.2	.0	11.5	7440
NOV		2.3	.4	9.3		11.9	3.7		1.3		16.8	7200
DEC	.0	.8	.4	14.4		15.7	3.4	.0	2.8		21.8	7440
ANNUAL	.9	4.7	.2	6.6	.0	11.5	3.4	.1	1.0	.0	16.0	87641



OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 4303-4506,4804-9102  
MONTH: ALL HOURS: ALL

MONTH	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
JAN		9.6	2.0	46.1		50.4	15.8	.3	14.4	.1	53.1	1344
FEB		13.6	3.0	49.1		55.3	23.4	1.0	12.8		58.1	1247
MAR	.5	20.6	2.8	44.1		54.3	22.2	1.0	10.8	.3	57.6	1334
APR	4.1	36.8	1.8	26.1	.6	50.5	19.6	1.2	4.6	.1	52.3	1298
MAY	17.5	55.0	.2	3.9	4.0	56.3	15.3	.4	.4		57.3	1377
JUN	32.0	54.5		.4	4.1	54.6	11.9	.2	.1		56.6	1332
JUL	33.1	47.7			3.8	47.8	6.0	.5			49.6	1357
AUG	26.4	42.6			3.0	42.8	6.3	.4			44.7	1354
SEP	9.1	34.0	.2	3.1	.5	34.9	9.4	.3	.1		36.1	1303
OCT	1.0	24.7	.7	11.0	.2	30.2	10.0	.2	1.0		31.6	1343
NOV	.1	15.8	2.2	29.9	.2	38.5	14.9	.3	7.6		41.6	1308
DEC	.1	11.2	2.8	41.6		46.7	17.7	.2	11.5		49.3	1353
ANNUAL	10.5	30.7	1.3	21.1	1.4	46.8	14.3	.5	5.2	.0	49.0	15950

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF THUNDERSTORMS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7

HOURS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
00-02					1.2	4.1	2.5	2.2	1.1	.3		
03-05					.5	1.1	.6	.5	.2			
06-08				.1	.4	.6	.6	.4	.1	.2		
09-11					.3	.4	.5	.5	.1	.1		.1
12-14					3.1	2.7	3.3	3.8	.2			
15-17				.7	2.6	5.3	6.3	5.1	.6			
18-20			.2	.2	2.5	4.0	4.8	4.9	1.4	.3		
21-23				.2	1.4	4.7	3.1	3.3	.7	.4		
ALL HOURS			.0	.2	1.5	2.9	2.7	2.6	.6	.2		.0
TOTAL OBS	7440	6761	7440	7200	7440	7200	7440	7440	7200	7440	7200	7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA  
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JAN HOURS: ALL

PHENOMENA	CALM	VARIABLE	030 - 060	110 - 150	160 - 230	240 - 310	320 - 350	NO OF OBS
TSTMS								
LIQUID PRECIP	2.0		9.8	3.9	2.0	29.4	52.9	51
FREEZING PRECIP	2.9		58.8	14.7	8.8		14.7	34
FROZEN PRECIP	6.4		32.8	19.7	7.2	3.3	30.6	1003
FOG	12.4		31.1	27.8	15.1	4.7	9.0	299
FOG WITH VIS GE 1/2 MILES	13.3		30.0	26.2	17.6	4.7	8.2	233
TOTAL OBS	981	0	893	577	1090	1718	2181	7440

MONTH: FEB HOURS: ALL

TSTMS								
LIQUID PRECIP	5.9		15.7	9.8	7.8	13.7	47.1	51
FREEZING PRECIP	23.1		38.5	15.4	7.7		15.4	13
FROZEN PRECIP	7.7		47.4	9.5	6.0	1.3	28.1	1073
FOG	14.9		42.2	16.9	10.1	1.4	14.5	296
FOG WITH VIS GE 1/2 MILES	7.5		45.3	20.1	8.4	1.9	16.8	214
TOTAL OBS	908	0	1250	608	942	1175	1878	6761

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA  
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAR HOURS: ALL

PHENOMENA	CALM	VARIABLE	030 - 060	110 - 150	160 - 230	240 - 310	320 - 350	NO OF OBS
TSTMS	50.0					50.0		2
LIQUID PRECIP	4.1		29.7	16.7	6.9	6.5	36.2	246
FREEZING PRECIP			55.6	44.4				27
FROZEN PRECIP	2.8		37.7	14.8	3.0	1.9	39.9	1152
FOG	5.4		39.6	23.1	8.8	3.1	20.1	523
FOG WITH VIS GE 1/2 MILES	4.0		41.8	20.6	8.0	2.8	22.7	423
TOTAL OBS	714	0	1515	1075	1205	995	1936	7440

MONTH: APR HOURS: ALL

TSTMS			27.3	9.1	9.1	9.1	45.5	11
LIQUID PRECIP	3.0		33.3	10.8	4.3	8.3	40.3	372
FREEZING PRECIP			75.0	12.5	12.5			8
FROZEN PRECIP	1.6		29.3	4.6	1.0	4.6	59.0	614
FOG	2.7		53.4	7.4	1.4	3.7	31.4	296
FOG WITH VIS GE 1/2 MILES	3.0		50.4	8.3	1.5	4.1	32.7	266
TOTAL OBS	520	0	1273	829	1469	1056	2053	7200

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA  
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAY HOURS: ALL

PHENOMENA	CALM	VARIABLE	030 - 060	110 - 150	160 - 230	240 - 310	320 - 350	NO OF OBS
TSTMS	.9		20.0	17.4	18.3	20.0	23.5	115
LIQUID PRECIP	2.0		29.7	10.9	6.9	10.0	39.8	836
FREEZING PRECIP							100.0	1
FROZEN PRECIP			26.8	7.3	2.4	4.9	58.5	41
FOG	2.8		41.6	20.5	8.3	2.0	24.8	351
FOG WITH VIS GE 1/2 MILES	2.8		41.6	21.1	7.0	1.8	25.7	327
TOTAL OBS	513	0	1410	1040	1645	1050	1782	7440

MONTH: JUN HOURS: ALL

TSTMS	3.9		32.0	12.6	17.0	18.0	16.5	206
LIQUID PRECIP	2.3		18.3	18.6	10.6	13.8	36.5	436
FREEZING PRECIP								
FROZEN PRECIP								
FOG	2.7		36.0	27.9	15.3	3.6	14.4	111
FOG WITH VIS GE 1/2 MILES	3.0		36.6	27.1	12.9	4.0	15.8	101
TOTAL OBS	466	0	1296	1032	1641	1086	1679	7200

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA  
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUL HOURS: ALL

PHENOMENA	CALM	VARIABLE	030 - 060	110 - 150	160 - 230	240 - 310	320 - 350	NO OF OBS
TSTMS	3.9		26.8	9.8	20.0	21.5	18.0	205
LIQUID PRECIP	3.0		28.9	23.7	13.5	12.0	18.8	266
FREEZING PRECIP								
FROZEN PRECIP								
FOG	1.0		46.0	42.0	4.0	2.0	5.0	100
FOG WITH VIS GE 1/2 MILES			45.3	44.2	4.2	2.1	4.2	95
TOTAL OBS	492	0	1486	1174	2022	854	1412	7440

MONTH: AUG HOURS: ALL

TSTMS	2.5		33.0	11.2	13.7	22.3	17.3	197
LIQUID PRECIP	6.2		20.0	16.9	17.9	12.8	26.2	195
FREEZING PRECIP								
FROZEN PRECIP								
FOG	1.7		19.0	25.9	27.6	1.7	24.1	58
FOG WITH VIS GE 1/2 MILES	1.9		20.8	26.4	22.6	1.9	26.4	53
TOTAL OBS	521	0	1460	1028	2012	930	1489	7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA  
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: SEP HOURS: ALL

PHENOMENA	CALM	VARIABLE	030 - 060	110 - 150	160 - 230	240 - 310	320 - 350	NO OF OBS
TSTMS			32.5	12.5	10.0	15.0	30.0	40
LIQUID PRECIP	4.9		28.3	15.2	9.7	7.2	34.6	526
FREEZING PRECIP								
FROZEN PRECIP	1.3		11.8				86.8	76
FOG	9.4		38.4	28.3	7.6	1.8	14.5	276
FOG WITH VIS GE 1/2 MILES	8.2		37.1	27.6	8.6	1.7	16.8	232
TOTAL OBS	605	0	1343	864	1462	1073	1853	7200

MONTH: OCT HOURS: ALL

TSTMS			15.4	7.7	15.4	38.5	23.1	13
LIQUID PRECIP	5.1		18.3	5.6	8.2	16.7	46.1	449
FREEZING PRECIP								
FROZEN PRECIP	7.5		22.1	4.0	6.0	4.5	55.8	199
FOG	11.4		27.0	8.6	13.0	2.7	37.3	185
FOG WITH VIS GE 1/2 MILES	9.0		23.7	9.0	12.2	2.6	43.6	156
TOTAL OBS	950	0	871	705	1552	1416	1946	7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA  
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: NOV HOURS: ALL

PHENOMENA	CALM	VARIABLE	030 - 060	110 - 150	160 - 230	240 - 310	320 - 350	NO OF OBS
TSTMS								
LIQUID PRECIP	3.0		20.6	10.9	2.4	17.6	45.5	165
FREEZING PRECIP			84.6	11.5	3.8			26
FROZEN PRECIP	4.3		39.3	8.0	2.8	3.9	41.6	671
FOG	12.6		43.3	10.7	10.0	2.3	21.1	261
FOG WITH VIS GE 1/2 MILES	9.3		45.6	7.8	10.4	2.1	24.9	193
TOTAL OBS	996	0	968	677	1146	1467	1946	7200

MONTH: DEC HOURS: ALL

TSTMS							100.0	1
LIQUID PRECIP	1.6		22.2	4.8	1.6	9.5	60.2	63
FREEZING PRECIP			33.3		13.3	3.3	50.0	30
FROZEN PRECIP	9.3		31.3	8.1	8.1	5.0	38.3	1110
FOG	10.8		39.2	12.0	7.6	6.0	24.4	250
FOG WITH VIS GE 1/2 MILES	10.6		39.4	12.4	6.0	6.9	24.8	218
TOTAL OBS	1074	0	914	425	1111	1732	2184	7440



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA  
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTHS: ALL

PHENOMENA	CALM	VARIABLE	030 - 060	110 - 150	160 - 230	240 - 310	320 - 350	NO OF OBS
TSTMS	2.9		28.7	12.0	16.6	20.4	19.4	790
LIQUID PRECIP	3.6		25.5	13.2	8.4	11.4	37.9	3656
FREEZING PRECIP	2.9		56.1	16.5	7.2	.7	16.5	139
FROZEN PRECIP	5.7		35.8	11.0	5.0	3.2	39.3	5939
FOG	8.0		39.7	19.6	9.3	3.0	20.5	3006
FOG WITH VIS GE 1/2 MILES	6.3		39.9	19.4	8.8	3.1	22.5	2511
TOTAL OBS	8740	0	14679	10034	17297	14552	22339	87641



PPPPPPPP	AAAAAA	RRRRRRRR	TTTTTTTTTT	BBBBBBBBBB
PPPPPPPPPP	AAAAAAAA	RRRRRRRRR	TTTTTTTTTTT	BBBBBBBBBBB
PP PP	AA AA	RR RR	TT	BB BB
PP PP	AA AA	RR RR	TT	BB BB
PPPPPPPPPP	AA AA	RRRRRRRRR	TT	BBBBBBBBBBB
PPPPPPPPPP	AAAAAAAAAA	RRRRRRRRR	TT	BBBBBBBBBBB
PP	AAAAAAAAAA	RR RR	TT	BB BB
PP	AA AA	RR RR	TT	BB BB
PP	AA AA	RR RR	TT	BBBBBBBBBBB
PP	AA AA	RR RR	TT	BBBBBBBBBBB

## PART B

### PRECIPITATION, SNOWFALL, SNOW DEPTH SUMMARIES

ALL TABLES IN PART B ARE CREATED FROM SUMMARY OF DAY (SOD) DATA.

#### PERCENT OCCURRENCE FREQUENCY.

THESE TABLES GIVE THE PERCENT OCCURRENCE FREQUENCY OF PRECIPITATION, SNOWFALL AND SNOW DEPTH. DATA IS SUMMARIZED FOR ALL YEARS COMBINED. SUMMARIES INCLUDE THE PERCENT OF DAYS WITH MEASURABLE AMOUNTS, PERCENT OF DAYS WITH NO AMOUNTS, PERCENT OF DAYS WITH TRACES, AND PERCENT OF DAYS WITH SPECIFIED AMOUNTS. SUMMARIES ALSO PROVIDE AN OBSERVATION COUNT. A VALUE OF ".0" INDICATES ONE OR MORE OCCURRENCES THAT, IN AGGREGATE, AMOUNT TO LESS THAN .05 PERCENT.

#### MONTHLY TOTALS.

THESE TABLES GIVE THE TOTAL MONTHLY PRECIPITATION AND SNOWFALL RESPECTIVELY. THEY ARE SUMMARIZED BY MONTH FOR ALL YEARS. THE TABLES ALSO GIVE THE GREATEST AMOUNTS, LEAST AMOUNTS, MEAN, MEDIAN, STANDARD DEVIATIONS, AND TOTAL AVAILABLE OBSERVATIONS. AN ASTERISK (\*) INDICATES A VALUE FOR A MONTH FOR WHICH LESS THAN 90% OF THE DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS. INCOMPLETE MONTHS/YEARS ARE NOT INCLUDED IN STATISTICAL COMPUTATIONS. NOTE: LEAST AMOUNTS ARE DERIVED FROM COMPLETE MONTHS/YEARS ONLY. ".00" MEANS NO PRECIPITATION FOR THE MONTH, ".0" MEANS NO SNOWFALL FOR THE MONTH.

#### DAILY EXTREMES.

THESE TABLES GIVE THE MAXIMUM DAILY REPORTED AMOUNTS (BY INDIVIDUAL YEAR-MONTH) FOR PRECIPITATION, SNOWFALL, AND SNOW DEPTH, RESPECTIVELY. THEY SHOW THE GREATEST AMOUNTS FOR EACH MONTH AND THE TOTAL NUMBER OF AVAILABLE OBSERVATIONS FOR EACH MONTH AND YEAR. AN ASTERISK (\*) INDICATES A MONTH FOR WHICH LESS THAN 90% OF DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS. ".00" MEANS NO PRECIPITATION FOR THE MONTH, ".0" MEANS NO SNOWFALL FOR THE MONTH, AND "0" MEANS NO SNOW DEPTH FOR THE MONTH.

#### SNOWFALL/SNOW DEPTH--FIRST AND LAST DAYS OF OCCURRENCE BY SNOW YEAR.

THIS SUMMARY GIVES THE FIRST AND LAST OCCURRENCES OF SNOWFALL AND SNOW DEPTH FOR THE SNOW-YEAR DURING THE PERIOD OF RECORD. FOR THIS SUMMARY, THE SNOW-YEAR IS CONSIDERED TO RUN FROM 1 AUGUST TO 31 JULY. TABLES SUMMARIZE THE DATA BY SNOW-YEAR, BY MONTH, AND BY DAY. THE FIRST (OR LAST) ENTRY IN COLUMN 69 OF AWS FORMS 10/10A (OR EQUIVALENT) AS EITHER A TRACE OR A MEASURABLE AMOUNT DEFINES THE FIRST (OR LAST) SNOWFALL FOR THE YEAR. THE FIRST (OR LAST) ENTRY IN COLUMN 69 OTHER THAN ".0" OR "TRACE" DEFINES THE FIRST (OR LAST) MEASURABLE SNOWFALL. FINALLY, THE 1200 GMT ENTRY COLUMN 70 OF AWS FORM 10/10A (OR EQUIVALENT) DEFINES THE FIRST (OR LAST) OCCURRENCE OF SNOW DEPTH. THE LAST SNOW DEPTH IS CONSIDERED THE LAST SNOW MELT. THIS SUMMARY IS NOT PROVIDED WHEN NO SNOWFALL OCCURS DURING THE GIVEN PER.

NOTE 1. IF THE MINIMUM AMOUNT RECORDED IN THE MONTHLY TOTALS OR DAILY EXTREMES IS A TRACE, THE WORD "TRACE" WILL APPEAR IN THE APPROPRIATE COLUMN.

NOTE 2. TABLES INCLUDE STATISTICAL DATA ONLY WHEN FIVE (5) OR MORE SETS OF COMPLETE MONTHS ARE AVAILABLE.

NOTE 3. THE OBSERVATION COUNTS OR THE STATION HISTORY MIGHT PROVIDE CLUES AS TO WHY CERTAIN DATA ARE MISSING. FOR EXAMPLE, ONLY A FEW MISSING OBSERVATIONS MIGHT IMPLY MISSING DATA BECAUSE OF EQUIPMENT MALFUNCTION, BUT MORE THAN SEVERAL MISSING OBSERVATIONS USUALLY MEANS THE STATION IS (OR HAS BEEN) CLOSED.

NOTE 4. IN DAILY AND MONTHLY AMOUNTS SUMMARIES, THE LAST ENTRY ON THE PAGE GIVES THE GREATEST AMOUNT FOR THE PERIOD OF RECORD.

NOTE 5. BEFORE JANUARY 1956, SNOWFALL OCCURRENCES IN THE SUMMARY OF DAY INCLUDED HAIL.

NOTE 6. SNOW DEPTH REPORTING TIMES FOR USAF, NAVY AND CIVIL STATIONS ARE AS FOLLOWS:

AIR FORCE		NAVY AND NATIONAL WEATHER SERVICE	
THROUGH 1945:	0800 LST	THROUGH JUN 1952:	0030 GMT
JAN 1946 TO MAY 1957:	1230 LST	JUN 1952 TO MAY 1957:	1230 GMT
JUN 1957 TO PRESENT:	1200 GMT	JUN 1957 TO PRESENT:	1200 GMT

NOTE 7. 24-HOUR PRECIPITATION (INCLUDING SNOWFALL AND SNOW DEPTH) VALUES DERIVED FROM PART TIME PERIODS MAY NOT REFLECT TRUE 24-HOUR AMOUNTS. RECORDED AMOUNTS FOLLOWING WEEKENDS AND/OR HOLIDAYS FREQUENTLY REPRESENT AMOUNTS MEASURED FOR PERIODS GREATER THAN 24 HOURS. IN ADDITION, 24-HOUR AMOUNTS MAY NOT REPRESENT THE STANDARD CLIMATOLOGICAL 24-HOUR "MIDNIGHT TO MIDNIGHT" AMOUNT. DATA FROM PART TIME PERIODS MAY NOT ACCURATELY REFLECT NIGHTTIME PRECIPITATION EVENTS.

CONVERSIONS:

- 1 INCH = 25.39998 MILLIMETERS

- 1 MILLIMETER = .03937 INCHES

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF PRECIPITATION IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 4303-4506,4804-9102  
MONTH: ALL HOURS: ALL

AMOUNTS (INCHES)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
NONE	50.9	45.4	46.5	50.7	44.0	44.0	51.9	57.1	64.9	69.7	62.1	54.6	53.5
TRACE	29.1	32.4	28.1	22.3	21.1	18.7	21.9	19.7	15.9	14.5	20.0	26.2	22.4
.01	4.4	3.5	4.8	3.3	3.6	2.6	3.1	2.6	2.1	2.2	2.5	4.0	3.2
.02-.05	7.8	8.4	7.9	6.6	6.9	9.4	6.4	5.9	6.0	4.1	6.2	7.1	6.9
.06-.10	3.2	3.8	5.3	3.9	6.2	5.0	4.3	3.0	2.7	2.7	3.3	4.1	4.0
.11-.25	3.8	5.0	4.0	6.2	7.0	7.9	5.2	4.7	4.1	3.2	3.6	3.3	4.8
.26-.50	.7	1.0	2.4	3.8	5.0	6.6	3.4	4.4	2.1	2.2	1.4	.8	2.8
.51-1.00		.6	.6	2.3	4.1	4.0	2.9	2.1	1.7	1.0	.8		1.7
1.01-2.50	.1	.1	.3	1.0	1.9	1.8	.8	.4	.4	.4	.1		.6
2.51-5.00					.1	.1	.1						.0
5.01-10.00													
10.01-20.00													
OVER 20.00													
DAYS WITH MEAS AMTS	20.0	22.3	25.3	27.1	34.9	37.4	26.2	23.2	19.2	15.8	17.9	19.3	24.1
TOTAL NO. OF OBSERVATIONS	1395	1270	1393	1374	1426	1356	1386	1395	1350	1395	1349	1391	16480

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY PRECIPITATION AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 4303-4506,4804-9102  
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
43			.12	.04*	1.90	1.13*	1.10*	.07	.16	.77	.17	.13	5.59*
44	1.74	.41	.87	1.63	4.05	5.01	4.07	.53	.31	.79	2.30	.41	22.12
45	.60	.60	3.12	.35	2.30	4.09							11.06*
48				.02	1.15	2.91	2.05	2.61	.51	1.20	.13	.14	10.72*
49	.48	.25	.32	2.42	1.61	2.08	.04	1.04	.07	1.15	.13	.17	9.76
50	.63	.30	2.37	2.48	1.98	.84	1.22	2.32	2.29	.68	.33	TRACE	15.44
51	.06	TRACE	.70	.19	1.70	3.32	.92	4.10	2.72	1.30	.18	.80	15.99
52	.01	.78	.73	.21	6.01	2.51	1.63	1.60	.01	.01	.32	.03	13.85
53	.56	2.19	.59	3.33	2.12	5.14	.85	2.74	.65	.07	.52	.19	18.95
54	.17	.28	2.21	.18	2.48	3.11	.60	1.76	.08	1.01	.56	.25	12.69
55	.53	1.82	.82	1.16	2.29	2.35	2.55	1.28	2.26	.30	.50	.85	16.71
56	.59	.28	1.12	1.82	1.74	1.24	1.96	2.77	1.70	.23	.86	.34	14.65
57	.38	.41	.40	1.46	6.60	2.98	.71	1.38	.58	1.05	.32	.04	16.31
58	.28	.59	.89	5.45	1.02	6.24	3.95	.72	.06	.46	.80	.68	21.14
59	.62	.71	.21	1.50	2.54	1.86	1.08	1.02	2.59	.11	2.16	.37	14.77
60	.39	.99	.71	1.31	1.32	3.94	.33	2.45	.74	.01	.54	.89	13.62
61	.14	.29	.85	1.39	1.12	1.14	1.47	.10	.65	.84	.61	.60	9.20
62	1.32	1.13	.80	.56	9.81	3.06	3.02	.49	.31	1.82	.09	.24	22.63
63	1.12	1.31	1.12	3.69	2.37	3.84	1.27	.95	1.43	.62	.30	.19	18.21
64	.39	1.03	1.09	1.20	3.10	4.47	.63	1.56	.82	.49	.38	1.10	16.26
65	.77	.28	.49	1.51	7.56	3.23	2.55	2.45	1.83	.57	.27	.27	21.78
66	.27	.98	2.34	3.04	.23	1.91	5.73	1.77	2.84	1.77	.94	.45	22.27
67	.36	.25	.40	5.59	4.84	7.74	2.25	.76	1.96	.20	.23	.39	24.97
68	.25	.48	.11	1.79	1.25	6.80	2.08	2.26	.99	.08	.46	.70	17.25
69	.16	.85	.52	1.47	2.27	3.22	4.87	.09	.67	.67	.28	.38	15.45
70	.92	.50	1.32	4.50	2.53	2.64	.91	.37	1.52	.85	1.23	.55	17.84
71	1.05	.78	.86	3.23	4.11	1.87	.92	1.00	2.36	1.92	.62	.08	18.80
72	.31	.41	.44	2.87	3.61	6.21	4.52	1.52	.24	.84	.25	.41	21.63
73	.07	.16	2.78	2.79	2.54	.92	1.98	1.21	1.74	1.32	.62	.41	16.54
74	.10	.32	.43	1.47	2.56	1.09	1.49	2.29	.81	1.27	.08	.14	12.05
75	.78	.25	1.13	1.82	1.19	4.21	2.16	.79	.03	.45	.38	.74	13.93

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY PRECIPITATION AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 4303-4506,4804-9102  
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
76	.32	.68	.17	2.55	3.15	4.92	1.02	.67	.38	.38	.74	.43	15.41
77	.72	.18	2.18	1.71	3.16	1.16	2.41	1.40	3.03	1.41	.94	.36	18.66
78	.06	.87	.33	3.11	3.18	1.29	3.26	1.96	.16	.42	1.65	.22	16.51
79	.59	.43	.40	.43	1.25	3.65	3.43	1.89	.13	.85	.13	.02	13.20
80	.35	.48	1.04	1.09	2.64	2.22	.66	2.79	.54	2.20	.39	.50	14.90
81	.20	.09	.05	.30	4.67	1.22	4.95	.72	.34	2.56	.22	.28	15.60
82	.26	.42	1.66	.75	8.52	2.58	3.25	2.69	2.82	3.54	.30	.44	27.23
83	.69	.12	.94	1.61	2.35	1.94	.84	1.30	.39	1.35	1.01	.70	13.24
84	.11	.16	.66	3.21	1.61	5.11	1.20	1.30	.97	.23	.66	.59	15.81
85	.58	.09	1.07	.21	.96	1.68	.48	1.66	.58	.92	2.87	.95	12.05
86	.41	1.71	.97	4.23	1.79	4.42	3.95	1.75	3.57	2.11	1.41	.11	26.43
87	TRACE	1.81	.91	.02	3.29	1.26	.17	1.42	.46	.36	.14	.11	9.95
88	.13	.28	.75	.46	2.52	1.80	.28	1.66	.40	.89	.92	.55	10.64
89	.12	.23	1.07	1.50	1.78	1.50	.57	1.31	2.13	2.39	.61	1.14	14.35
90	.42	.50	.87	1.14	4.18	1.36	1.85	1.31	.33	.51	.88	.53	13.88
91	.58	.84											1.42*



TOTAL MONTHLY PRECIPITATION AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

PERIOD OF RECORD: 4303-4506,4804-9102  
MONTH: ALL HOURS: ALL

THE GREATEST VALUE OF 9.81 OCCURRED ON 05/62

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

EXTREME DAILY PRECIPITATION AMOUNTS INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 4303-4506, 4804-9102  
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SE	OCT	NOV	DEC	ANNUAL
43			.05	.03*	.75	.85*	.70*	.03	.16	.48	.10	.05	.85*
44	1.22	.29	.24	.65	1.64	1.60	2.22	.40	.14	.40	1.05	.16	2.22
45	.18	.15	2.20	.10	.59	.65							2.20*
48				.02	.70	.85	.84	1.09	.22	.99	.10	.14	1.09*
49	.12	.25	.10	1.05	1.03	1.33	.03	.38	.04	.59	.09	.15	1.33
50	.50	.28	.61	1.40	1.00	.44	.39	.75	1.21	.38	.22	TRACE	1.40
51	.06	TRACE	.20	.10	.32	.97	.52	1.34	.99	.65	.09	.24	1.34
52	.01	.30	.36	.17	1.31	.86	.98	.74	.01	.01	.28	.03	1.31
53	.15	.64	.49	1.07	.42	1.90	.47	.82	.43	.04	.15	.07	1.90
54	.07	.17	1.09	.17	.99	1.36	.34	.66	.05	.47	.45	.11	1.36
55	.20	.99	.30	.61	1.58	.55	1.29	.48	.90	.15	.28	.22	1.58
56	.27	.11	.71	.56	.53	.54	.50	.73	1.34	.20	.40	.10	1.34
57	.16	.18	.19	.37	1.53	.59	.21	.54	.40	.33	.16	.03	1.53
58	.28	.14	.40	1.72	.41	1.85	.69	.43	.04	.33	.30	.22	1.85
59	.20	.24	.06	.73	1.07	.77	1.01	.79	1.08	.05	.63	.12	1.08
60	.14	.29	.27	.77	.70	1.35	.09	1.13	.57	.01	.19	.48	1.35
61	.11	.12	.39	.52	.33	.60	.52	.07	.27	.66	.34	.17	.66
62	.39	.31	.33	.26	2.09	.63	1.17	.40	.23	1.42	.04	.14	2.09
63	.22	.48	.95	1.22	1.14	1.55	.50	.32	.72	.30	.19	.04	1.55
64	.22	.33	.51	.65	.89	1.43	.22	1.01	.72	.49	.17	.27	1.43
65	.24	.09	.16	.49	3.09	.76	.78	.63	.59	.30	.09	.15	3.09
66	.06	.62	1.43	1.40	.13	.49	1.68	.61	1.93	.82	.37	.10	1.93
67	.17	.07	.17	1.84	1.25	2.42	.84	.28	.57	.08	.20	.11	2.42
68	.10	.13	.04	.74	.36	2.30	1.25	.78	.41	.08	.16	.30	2.30
69	.03	.23	.14	.44	1.31	.85	3.23	.04	.28	.31	.11	.16	3.23
70	.31	.32	.38	1.66	.70	1.80	.37	.18	.48	.22	.54	.22	1.80
71	.44	.25	.46	.83	1.22	.55	.31	.34	.95	.68	.23	.04	1.22
72	.11	.11	.19	.83	.73	2.30	2.66	.82	.10	.71	.11	.16	2.66
73	.03	.05	1.26	.87	.71	.51	.60	.53	.59	.98	.25	.21	1.26
74	.06	.24	.19	.48	.70	.47	.69	1.03	.71	.79	.07	.05	1.03
75	.25	.09	.31	.88	.59	1.17	.91	.40	.03	.27	.13	.26	1.17

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

EXTREME DAILY PRECIPITATION AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 4303-4506,4804-9102  
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
76	.26	.13	.10	.82	1.02	3.25	.50	.41	.16	.32	.32	.16	3.25
77	.17	.09	.66	.94	1.18	.32	.70	.44	1.80	.96	.70	.10	1.80
78	.05	.19	.14	1.50	.63	.45	1.33	.73	.09	.15	.91	.11	1.50
79	.19	.15	.11	.23	.36	1.13	.90	1.05	.12	.29	.09	.02	1.13
80	.14	.14	.38	.40	.97	.54	.29	.61	.20	2.07	.12	.32	2.07
81	.16	.06	.04	.18	1.11	.35	2.24	.23	.20	1.43	.11	.14	2.24
82	.07	.20	.46	.26	1.83	.64	1.70	.81	1.04	2.10	.18	.17	2.10
83	.45	.11	.29	.45	1.03	.88	.33	.48	.12	.59	.26	.36	1.03
84	.03	.08	.26	1.66	.36	1.79	.35	.42	.31	.08	.55	.26	1.79
85	.17	.03	.55	.13	.54	.54	.15	.90	.17	.35	.67	.34	.90
86	.19	1.02	.35	.97	.67	1.65	2.01	.48	.73	1.33	.58	.09	2.01
87	TRACE	.72	.20	.01	1.01	.39	.09	.36	.21	.16	.07	.07	1.01
88	.06	.14	.40	.33	1.07	.54	.11	.96	.31	.60	.48	.20	1.07
89	.09	.14	.44	.27	.60	.84	.22	.47	.92	1.18	.43	.34	1.18
90	.25	.21	.60	.34	1.44	.53	.71	.40	.24	.14	.50	.30	1.44
91	.26	.55											.55*
.....													
GREATEST	1.22	1.02	2.20	1.84	3.09	3.25	3.23	1.34	1.93	2.10	1.05	.48	3.25
.....													
TOTAL OBS	1395	1270	1393	1374	1426	1356	1386	1395	1350	1395	1349	1391	16480
.....													

THE GREATEST VALUE OF 3.25 OCCURRED ON 06/14/76

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SNOWFALL IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 4804-9102  
MONTH: ALL HOURS: ALL

AMOUNTS (INCHES)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
NONE	53.0	49.4	53.9	72.8	95.7	99.6	100.0	100.0	96.8	88.8	69.8	57.7	78.3
TRACE	28.3	29.2	24.2	14.7	2.7	.2			2.3	7.1	17.1	23.9	12.4
0.1-0.4	9.5	9.1	9.0	4.4	.3	.1			.5	1.2	4.9	7.7	3.9
0.5-1.4	6.2	6.3	7.5	3.3	.7	.1			.2	2.1	4.3	6.5	3.1
1.5-2.4	2.0	3.4	2.3	1.8	.3				.1	.4	1.6	2.5	1.2
2.5-3.4	.8	1.5	1.2	1.1	.2					.3	.9	1.1	.6
3.5-4.4	.2	.5	.6	.6	.1						.6	.6	.3
4.5-6.4	.1	.3	.6	.9	.1	.1				.2	.5	.1	.2
6.5-10.4	.1	.3	.5	.3							.2		.1
10.5-15.4			.2	.1							.1		.0
15.5-25.4				.1									.0
25.5-50.4													
OVER 50.4													
DAYS WITH MEAS AMTS	18.8	21.4	21.9	12.5	1.6	.2			.9	4.1	13.0	18.4	9.3
TOTAL NO. OF OBSERVATIONS	1333	1213	1302	1289	1333	1290	1333	1333	1290	1333	1289	1332	15670

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY SNOWFALL AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 4804-9102  
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
48				.0	TRACE	.0	.0	.0	.0	TRACE	1.5	1.5	3.0*
49	12.1	2.5	2.4	TRACE	TRACE	.0	.0	.0	TRACE	1.0	.0	7.3	25.3
50	2.4	1.9	28.7	12.3	5.1	.0	.0	.0	TRACE	6.0	6.9	TRACE	63.3
51	.6	.7	6.6	1.4	.0	6.1	.0	.0	TRACE	TRACE	1.7	7.7	24.8
52	TRACE	7.5	5.8	.3	.0	.0	.0	.0	.0	TRACE	.1	.3	14.3
53	5.5	19.5	5.9	9.0	.9	.0	.0	.0	.0	.0	3.3	1.3	45.4
54	1.8	1.5	22.1	TRACE	1.9	TRACE	.0	.0	.0	6.5	5.6	1.0	40.4
55	5.3	18.0	8.2	6.6	.0	.0	.0	.0	.3	.7	4.5	8.5	52.1
56	4.5	2.8	11.2	13.8	.6	.0	.0	.0	.0	.3	8.6	3.2	45.0
57	3.8	4.1	4.0	11.9	.0	.0	.0	.0	.3	TRACE	1.2	.1	25.4
58	3.0	4.7	4.6	16.1	.0	.0	.0	.0	TRACE	.1	4.4	6.6	39.5
59	4.7	6.9	2.1	13.3	TRACE	.0	.0	.0	TRACE	.5	16.0	3.4	46.9
60	3.9	9.9	4.4	6.6	.0	.0	.0	.0	TRACE	.1	4.6	10.6	40.1
61	1.4	2.1	7.0	4.0	TRACE	.0	.0	.0	.6	2.7	3.7	6.1	27.6
62	12.3	7.6	6.1	.6	TRACE	.0	.0	.0	TRACE	.0	.2	2.3	29.1
63	11.2	10.9	10.5	4.7	.0	.0	.0	.0	.0	TRACE	.4	2.1	39.8
64	4.3	10.0	10.4	3.5	.0	.0	.0	.0	.0	.0	3.6	11.0	42.8
65	5.5	2.7	4.9	7.8	7.1	.0	.0	.0	1.6	.0	.6	.1	30.3
66	2.7	10.8	24.1	12.1	.5	.0	.0	.0	.0	1.7	8.2	6.5	66.6
67	6.5	7.0	7.4	7.3	4.3	.0	.0	.0	TRACE	.0	4.0	10.7	47.2
68	8.5	7.2	1.3	9.0	TRACE	.0	.0	.0	.0	.0	1.1	9.9	37.0
69	1.9	10.2	5.6	3.0	TRACE	.8	.0	.0	.0	2.5	2.7	6.4	33.1
70	5.9	6.0	15.6	42.8	TRACE	.0	.0	.0	TRACE	5.8	4.3	9.1	89.5
71	18.7	12.7	13.5	7.0	.0	.0	.0	.0	TRACE	8.2	8.8	3.1	72.0
72	5.6	10.4	.7	1.6	.5	.0	.0	.0	TRACE	2.4	3.2	7.5	31.9
73	1.8	2.3	19.2	3.5	.0	.0	.0	.0	.0	2.3	11.2	6.3	46.6
74	2.4	4.6	1.2	6.1	.0	.0	.0	.0	TRACE	TRACE	.6	2.2	17.1
75	13.3	7.2	16.4	2.7	.0	.0	.0	.0	.0	5.0	7.6	10.3	62.5
76	4.3	6.1	4.2	1.0	.0	.0	.0	.0	.0	.3	8.5	6.6	31.0
77	7.5	3.2	21.4	.3	.0	.0	.0	.0	.0	TRACE	12.6	7.6	52.6
78	.9	16.1	3.9	4.0	.8	.0	.0	.0	.0	TRACE	12.5	2.3	40.5
79	7.3	5.5	3.0	2.9	2.6	.0	.0	.0	.0	TRACE	1.3	TRACE	22.6
80	4.9	7.6	12.0	7.5	.0	.0	.0	.0	.0	3.6	5.2	6.0	46.8

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY SNOWFALL AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 4804-9102  
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
81	.4	1.8	TRACE	TRACE	TRACE	.0	.0	.0	.0	2.2	2.4	4.8	11.6
82	4.3	6.5	16.6	8.1	TRACE	.0	.0	.0	.0	2.0	3.6	7.2	48.3
83	4.3	1.0	6.1	9.2	3.7	.0	.0	.0	.3	.7	8.1	7.1	40.5
84	1.0	1.4	5.5	26.1	TRACE	.0	.0	.0	2.7	.7	4.0	6.2	47.6
85	4.8	.8	8.9	TRACE	.0	.0	.0	.0	.4	1.4	30.5	10.7	57.5
86	3.1	10.9	10.5	13.8	TRACE	.0	.0	.0	.0	TRACE	11.4	1.2	50.9
87	TRACE	19.7	6.4	TRACE	.0	.0	.0	.0	.0	.7	TRACE	3.7	30.5
88	1.0	3.4	7.2	3.7	TRACE	.0	.0	.0	.0	TRACE	1.6	6.0	22.9
89	.6	2.8	9.1	3.6	.0	.0	.0	.0	.0	1.1	3.2	10.5	30.9
90	4.1	6.6	7.9	3.6	TRACE	.0	.0	.0	.0	2.2	3.4	5.3	33.1
91	6.1	10.1											16.2*
LEAST	TRACE	.7	TRACE	.0	.0	.0	.0	0	.0	.0	.0	TRACE	11.6
GREATEST	18.7	19.7	28.7	42.8	7.1	6.1	.0	.0	2.7	8.2	30.5	11.0	89.5
MEAN	4.7	6.9	8.9	6.8	.6	.2	.0	.0	.1	1.4	5.3	5.3	40.5
MEDIAN	.3	6.5	6.8	4.0	TRACE	.0	.0	.0	.0	.5	3.7	6.1	40.3
SD	3.961	4.995	6.726	7.880	1.566	.935	.000	.000	.482	2.065	5.556	3.476	15.900
TOTAL OBS	1333	1213	1332	1289	1333	1290	1333	1333	1290	1333	1289	1332	15670

THE GREATEST VALUE OF 42.8 OCCURRED ON 04/70

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

EXTREME DAILY SNOWFALL AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LS' TO UTC: +07

PERIOD OF RECORD: 4804-9102  
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
48				.0	TRACE	.0	.0	.0	.0	TRACE	1.4	1.5	1.5*
49	3.0	2.5	1.0	TRACE	TRACE	.0	.0	.0	TRACE	1.0	.0	2.0	3.0
50	.9	1.7	6.7	4.6	3.5	.0	.0	.0	TRACE	3.0	3.9	TRACE	6.7
51	.6	.6	3.0	1.0	.0	5.9	.0	.0	TRACE	TRACE	.7	2.3	5.9
52	TRACE	3.0	3.6	.3	.0	.0	.0	.0	.0	TRACE	.4	.3	3.6
53	1.5	6.4	4.9	2.3	.9	.0	.0	.0	.0	.0	1.5	.7	6.4
54	.7	.7	10.9	TRACE	1.0	TRACE	.0	.0	.0	4.7	4.5	.5	10.9
55	2.0	9.7	3.0	6.1	.0	.0	.0	.0	.3	.5	2.8	2.2	9.7
56	2.7	1.1	7.1	5.6	.6	.0	.0	.0	.0	.3	4.0	1.0	7.1
57	1.6	1.8	1.9	3.3	.0	.0	.0	.0	.3	TRACE	.4	.1	3.3
58	2.8	1.4	1.0	5.4	.0	.0	.0	.0	TRACE	.1	3.0	2.3	5.4
59	2.0	2.2	.6	8.0	TRACE	.0	.0	.0	TRACE	.5	7.1	1.2	8.0
60	1.4	2.9	1.0	5.4	.0	.0	.0	.0	TRACE	.1	1.6	5.8	5.8
61	1.1	1.2	3.6	2.2	TRACE	.0	.0	.0	.6	2.3	2.1	2.1	3.6
62	3.9	3.1	1.8	.5	TRACE	.0	.0	.0	TRACE	.0	.2	1.4	3.9
63	2.2	4.8	8.7	2.8	.0	.0	.0	.0	.0	TRACE	.4	.6	8.7
64	2.4	3.7	5.2	1.7	.0	.0	.0	.0	.0	.0	1.8	2.7	5.2
65	2.4	.9	1.6	5.4	4.5	.0	.0	.0	1.2	.0	.3	.1	5.4
66	.6	7.2	14.2	8.6	.5	.0	.0	.0	.0	1.0	5.3	1.9	14.2
67	2.5	1.7	2.9	7.3	2.2	.0	.0	.0	TRACE	.0	2.0	1.9	7.3
68	3.4	2.2	.5	3.6	TRACE	.0	.0	.0	.0	.0	1.0	3.0	3.6
69	.4	2.9	1.8	1.8	TRACE	.8	.0	.0	.0	2.5	1.0	4.0	4.0
70	1.5	4.3	5.3	18.0	TRACE	.0	.0	.0	TRACE	2.3	3.0	2.8	18.0
71	6.9	4.0	5.7	5.4	.0	.0	.0	.0	TRACE	5.0	3.2	2.0	6.9
72	2.0	2.6	.3	1.3	.5	.0	.0	.0	TRACE	1.3	1.2	2.8	2.8
73	.8	.8	14.0	2.5	.0	.0	.0	.0	.0	1.3	4.7	3.9	14.0
74	1.2	2.9	.5	4.2	.0	.0	.0	.0	TRACE	TRACE	.6	.6	4.2
75	4.1	2.1	3.2	1.9	.0	.0	.0	.0	.0	2.3	6.0	4.0	6.0
76	3.8	2.7	2.0	1.0	.0	.0	.0	.0	.0	.3	3.0	3.0	3.8
77	2.0	2.0	10.0	.2	.0	.0	.0	.0	.0	TRACE	12.0	2.0	12.0
78	.5	4.3	2.2	4.0	.8	.0	.0	.0	.0	TRACE	3.7	1.2	4.3
79	3.1	1.7	1.1	1.9	2.5	.0	.0	.0	.0	TRACE	.9	TRACE	3.1
80	1.8	2.2	4.3	4.0	.0	.0	.0	.0	.0	3.0	2.1	4.4	4.4

B - 3 - 3A

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

EXTREME DAILY SNOWFALL AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: 4804-9102  
LST TO UTC: +07 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
81	.4	1.2	TRACE	TRACE	TRACE	.0	.0	.0	.0	1.3	2.0	2.7	2.7
82	2.4	2.6	6.8	2.8	TRACE	.0	.0	.0	.0	1.0	1.8	3.7	6.8
83	2.0	1.0	1.5	4.3	2.1	.0	.0	.0	.3	.7	2.6	3.6	4.3
84	.3	.8	2.6	10.9	TRACE	.0	.0	.0	2.1	.7	3.8	2.9	10.9
85	2.0	.3	5.5	TRACE	.0	.0	.0	.0	.3	1.1	7.2	3.6	7.2
86	1.9	3.2	6.3	5.8	TRACE	.0	.0	.0	.0	TRACE	6.1	.9	6.3
87	TRACE	8.2	2.0	TRACE	.0	.0	.0	.0	.0	.5	TRACE	2.9	8.2
88	.4	1.9	4.0	3.3	TRACE	.0	.0	.0	.0	TRACE	.8	2.3	4.0
89	.6	1.5	4.4	1.0	.0	.0	.0	.0	.0	1.0	2.7	3.6	4.4
90	2.5	3.5	3.9	2.3	TRACE	.0	.0	.0	.0	1.2	2.5	3.0	3.9
91	3.1	6.9											6.9*

GREATEST	6.9	9.7	14.2	18.0	4.5	5.9	.0	.0	2.1	5.0	12.0	5.8	18.0
TOTAL OBS	1333	1213	1302	1289	1333	1290	1333	1333	1290	1333	1289	1332	15670

THE GREATEST VALUE OF 18.0 OCCURRED ON 04/18/70

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

B - 3 - 3B



OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SNOW DEPTH IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 4303-4506,4804-9102  
MONTH: ALL HOURS: ALL

AMOUNTS (INCHES)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
NONE	39.0	41.8	52.3	82.8	98.2	99.8	100.0	100.0	99.4	95.3	70.1	44.7	77.2
TRACE	24.9	18.0	17.9	7.9	.8	.1			.4	2.4	12.9	21.4	8.0
1	15.4	11.5	9.9	2.8	.4	.1			.1	1.1	5.1	11.2	4.8
2	9.0	8.8	7.1	1.8	.2				.1	.4	3.7	8.9	3.3
3	4.2	5.9	4.3	1.4						.4	2.1	6.7	2.0
4-6	4.6	9.2	5.0	1.7	.4	.1				.4	3.4	6.2	2.5
7-12	2.7	4.1	3.0	1.0	.1						2.4	.6	1.1
13-24	.2	.6	.5	.5							.3	.3	.2
25-36													
37-48													
49-60													
61-120													
OVER 120													
DAYS WITH MEAS AMTS	36.1	40.2	29.7	9.3	1.0	.1			.1	2.3	17.0	33.9	14.0
TOTAL NO. OF OBSERVATIONS	1395	1270	1389	1380	1426	1358	1387	1395	1350	1395	1349	1394	16488

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

EXTREME DAILY SNOW DEPTH AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 4303-4506,4804-9102  
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
43			3*	0	TRACE	0*	0*	0	0	TRACE	TRACE	1	3*
44	13	7	5	TRACE	0	0	0	0	0	2	10	5	13
45	5	5	4	1	0	0							5*
48				0	0	0	0	0	0	0	1	3	3*
49	11	12	10	0	TRACE	0	0	0	TRACE	0	0	3	12
50	4	2	13	7	4	0	0	0	0	5	4	1	13
51	1	TRACE	8	2	0	6	0	0	0	TRACE	2	2	8
52	TRACE	4	5	TRACE	0	0	0	0	0	0	TRACE	1	5
53	1	15	11	2	TRACE	0	0	0	0	0	2	1	15
54	2	1	13	1	1	0	0	0	0	6	2	6	13
55	2	10	4	2	0	0	0	0	0	1	4	3	10
56	3	2	8	3	TRACE	0	0	0	0	TRACE	5	2	8
57	2	4	3	6	0	0	0	0	0	TRACE	TRACE	TRACE	6
58	3	3	2	5	0	0	0	0	0	0	2	3	5
59	2	4	1	11	0	0	0	0	0	TRACE	10	1	11
60	2	4	3	4	0	0	0	0	0	TRACE	2	3	4
61	2	2	2	3	0	0	0	0	TRACE	3	2	2	3
62	3	5	4	TRACE	0	0	0	0	0	0	TRACE	1	5
63	6	5	9	2	0	0	0	0	0	0	TRACE	1	9
64	2	5	5	2	0	0	0	0	0	0	2	8	8
65	4	1	2	4	6	0	0	0	2	0	0	0	6
66	3	7	8	10	0	0	0	0	0	1	4	5	10
67	2	3	3	0	10	0	0	0	0	0	2	4	10
68	5	3	0	3	0	0	0	0	0	0	1	4	5
69	1	4	2	3	0	1	0	0	0	3	2	4	4
70	7	4	7	23	0	0	0	0	0	3	3	5	23
71	9	13	6	4	0	0	0	0	0	6	3	3	13
72	2	4	2	TRACE	0	0	0	0	0	2	3	5	5
73	1	2	15	2	0	0	0	0	0	TRACE	7	4	15
74	1	2	1	2	0	0	0	0	0	0	1	1	2
75	5	5	6	2	0	0	0	0	0	3	9	5	9

B - 4 - 2A

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

EXTREME DAILY SNOW DEPTH AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 4303-4506,4804-9102  
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
76	8	5	2	1	0	0	0	0	0	TRACE	6	6	8
77	8	4	15	15	0	0	0	0	0	1	12	3	15
78	3	12	2	TRACE	1	0	0	0	0	0	9	3	12
79	6	4	1	2	1	0	0	0	0	0	1	TRACE	6
80	2	6	5	2	0	0	0	0	0	1	2	6	6
81	1	3	TRACE	0	0	0	0	0	0	1	2	4	4
82	2	6	8	5	0	0	0	0	0	1	1	4	8
83	1	TRACE	3	5	4	0	0	0	TRACE	1	6	6	6
84	2	1	3	8	TRACE	0	0	0	1	TRACE	2	4	8
85	2	1	11	TRACE	0	0	0	0	TRACE	TRACE	17	14	17
86	3	5	7	10	0	0	0	0	0	0	5	1	10
87	TRACE	13	8	TRACE	0	0	0	0	0	1	0	3	13
88	1	2	7	3	0	0	0	0	0	0	1	3	7
89	1	3	8	1	0	0	0	0	0	TRACE	3	7	8
90	3	5	5	2	0	0	0	0	0	TRACE	TRACE	3	5
91	3	9											9*
GREATEST	13	15	15*	23	10	6*	0*	0	2	6	17	14	23*
TOTAL OBS	1395	1270	1389	1380	1426	1358	1387	1395	1350	1395	1349	1394	16488

THE GREATEST VALUE OF 23 OCCURRED ON 04/19/70

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

B - 4 - 2B

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

FIRST AND LAST DAYS OF OCCURRENCE BY SNOW-YEAR  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: 4303-4506,4804-9102  
SNOW-YEAR: 1 AUG - 31 JUL

SNOW-YEAR	FIRST SNOWFALL	FIRST MEASURABLE SNOWFALL	FIRST MEASURABLE SNOW DEPTH	LAST SNOWFALL	LAST MEASURABLE SNOWFALL	LAST MEASURABLE SNOW DEPTH
42 - 43			MAR 02			MAR 20
43 - 44			DEC 26			MAR 31
44 - 45			OCT 01			APR 04
47 - 48	MAY 09			MAY 10		
48 - 49	OCT 06	NOV 12	NOV 19	MAY 23	MAR 17	MAR 21
49 - 50	SEP 12	OCT 20	DEC 11	MAY 08	MAY 08	MAY 08
50 - 51	SEP 30	OCT 01	OCT 02	JUN 02	JUN 02	JUN 02
51 - 52	SEP 20	NOV 02	NOV 05	APR 08	APR 03	MAR 25
52 - 53	OCT 14	NOV 24	DEC 22	MAY 14	MAY 11	APR 30
53 - 54	NOV 05	NOV 06	NOV 06	JUN 02	MAY 02	MAY 02
54 - 55	OCT 24	OCT 24	OCT 25	APR 12	APR 04	APR 06
55 - 56	SEP 24	SEP 25	OCT 23	MAY 03	MAY 03	APR 29
56 - 57	OCT 24	OCT 29	NOV 03	APR 17	APR 17	APR 13
57 - 58	SEP 19	SEP 19	JAN 31	APR 28	APR 28	APR 24
58 - 59	SEP 20	OCT 28	NOV 15	MAY 20	APR 20	APR 23
59 - 60	SEP 16	OCT 01	NOV 05	APR 29	APR 28	APR 17
60 - 61	SEP 22	OCT 30	NOV 28	MAY 04	APR 24	APR 14
61 - 62	SEP 23	SEP 29	OCT 29	MAY 06	APR 11	MAR 31
62 - 63	SEP 08	NOV 17	DEC 08	APR 22	APR 22	APR 23
63 - 64	OCT 30	NOV 21	DEC 10	APR 27	APR 19	APR 19
64 - 65	NOV 14	NOV 18	NOV 26	MAY 09	MAY 09	MAY 09
65 - 66	SEP 15	SEP 15	SEP 16	MAY 11	MAY 11	APR 22
66 - 67	OCT 03	OCT 14	OCT 14	MAY 12	MAY 12	MAY 12
67 - 68	SEP 13	NOV 01	NOV 02	MAY 18	APR 22	APR 22
68 - 69	NOV 05	NOV 05	NOV 06	JUN 13	JUN 13	JUN 13
69 - 70	OCT 03	OCT 12	OCT 13	MAY 14	APR 19	APR 25
70 - 71	SEP 12	OCT 06	OCT 07	APR 27	APR 27	APR 27
71 - 72	SEP 17	OCT 16	OCT 28	MAY 01	MAY 01	MAR 02
72 - 73	SEP 25	OCT 05	OCT 31	APR 19	APR 14	APR 08
73 - 74	OCT 09	OCT 11	NOV 01	APR 15	APR 15	APR 12
74 - 75	SEP 12	NOV 28	NOV 29	APR 30	APR 29	APR 03
75 - 76	OCT 22	OCT 22	OCT 23	APR 27	APR 27	APR 27

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

FIRST AND LAST DAYS OF OCCURRENCE BY SNOW-YEAR  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD

PERIOD OF RECORD: 4303-4506,4804-9102

SNOW-YEAR: 1 AUG - 31 JUL

SNOW-YEAR	FIRST SNOWFALL	FIRST MEASURABLE SNOWFALL	FIRST MEASURABLE SNOW DEPTH	LAST SNOWFALL	LAST MEASURABLE SNOWFALL	LAST MEASURABLE SNOW DEPTH
76 - 77	OCT 06	OCT 18	NOV 26	APR 19	APR 05	APR 07
77 - 78	OCT 09	NOV 19	OCT 10	MAY 08	MAY 07	MAY 07
78 - 79	OCT 12	NOV 09	NOV 10	MAY 10	MAY 10	MAY 10
79 - 80	OCT 21	NOV 10	NOV 21	APR 12	APR 11	APR 11
80 - 81	OCT 15	OCT 16	OCT 28	MAY 09	FEB 10	FEB 12
81 - 82	OCT 20	OCT 20	OCT 23	MAY 04	APR 19	APR 20
82 - 83	OCT 08	OCT 09	OCT 09	MAY 12	MAY 12	MAY 12
83 - 84	SEP 19	SEP 19	OCT 19	MAY 06	APR 27	APR 30
84 - 85	SEP 23	SEP 23	SEP 24	APR 26	MAR 31	MAR 17
85 - 86	SEP 23	SEP 23	NOV 09	MAY 07	APR 26	APR 14
86 - 87	OCT 10	NOV 06	NOV 07	APR 09	MAR 27	MAR 25
87 - 88	OCT 09	OCT 09	OCT 10	MAY 02	APR 25	APR 26
88 - 89	OCT 27	NOV 09	NOV 19	APR 30	APR 30	APR 29
89 - 90	OCT 02	OCT 15	NOV 27	MAY 09	APR 29	APR 29
90 - 91	OCT 06	OCT 06	DEC 15	FEB 28	FEB 28	FEB 28
MEDIAN-DATE	OCT 04	OCT 20	NOV 05	MAY 04	APR 26	APR 21



PPPPPPPP	AAAAAA	RRRRRRRR	TTTTTTTTTT	CCCCC
PPPPPPPP	AAAAAAA	RRRRRRRR	TTTTTTTTTT	CCCCCCC
PP PP	AA AA	RR RR	TT	CC CC
PP PP	AA AA	RR RR	TT	CC
PPPPPPPP	AA AA	RRRRRRRR	TT	CC
PPPPPPPP	AAAAAAAAA	RRRRRRRR	TT	CC
PP	AAAAAAAAA	RR RR	TT	CC
PP	AA AA	RR RR	TT	CC CC
PP	AA AA	RR RR	TT	CCCCCCC
PP	AA AA	RR RR	TT	CCCCC

PART C

SURFACE WIND SUMMARIES

PEAK WINDS.

THESE TABLES ARE CREATED FROM SUMMARY OF DAY DATA. SPEEDS ARE IN KNOTS. DIRECTIONS ARE TO 16 COMPASS POINTS FROM THE BEGINNING OF PERIOD OF RECORD THROUGH JUNE 1968, BUT IN JULY 1968, ALL STATIONS EXCEPT THOSE OF THE NATIONAL WEATHER SERVICE STARTED RECORDING DIRECTIONS IN TENS OF DEGREES. DATA IS SUMMARIZED BY MONTH FOR EACH YEAR FOR THE ENTIRE PERIOD OF RECORD AVAILABLE. GIVEN: THE GREATEST MONTHLY VALUE FOR ALL YEARS COMBINED, THE GREATEST YEARLY VALUE FOR ALL YEARS COMBINED, AND THE DATE OF THE ABSOLUTE PEAK WIND RECORDED FOR THE ENTIRE PERIOD OF RECORD. AN ASTERISK (\*) INDICATES A VALUE FOR A MONTH FOR WHICH LESS THAN 90% OF THE DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS.

PEAK WINDS--PERCENT OCCURRENCE FREQUENCY.

ALSO FROM SUMMARY OF DAY DATA. DATA IS SUMMARIZED BY MONTH, FOR ALL YEARS COMBINED, FOR ELEVEN WIND SPEED GROUPS. THE 1-4 KNOT SPEED GROUP INCLUDES CALM WINDS. IF THE PEAK WIND IS REPORTED FOR A PARTICULAR DAY AS "CALM," THAT COUNT GOES INTO THE "1-4 KNOT" CATEGORY. TABLES INCLUDE MEANS, MEDIANS, AND TOTAL OBSERVATION COUNTS. THE VALUES IN THIS SUMMARY ACCOUNT FOR A PEAK WIND BEING RECORDED FOR EACH DAY OF EACH MONTH.

WIND DIRECTION VS WIND SPEED--PERCENT OCCURRENCE FREQUENCY.

THESE TABLES ARE CREATED FROM HOURLY OBSERVATIONS. THEY SUMMARIZE THE DATA AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

THESE TABLES GIVE A BIVARIATE DISTRIBUTION OF THE PERCENT OCCURRENCE FREQUENCY (POF) FOR ELEVEN WIND SPEED GROUPS VERSUS TWELVE WIND DIRECTION SECTORS GIVEN IN 30 DEGREE INCREMENTS. "CALM" AND "VARIABLE" WINDS ARE GIVEN SEPARATELY. CARDINAL WIND DIRECTIONS (N,E,S,W) APPEAR FOR REFERENCE. TOTAL PERCENTAGES, MEANS, AND MEDIANS FOR EACH SECTOR, ALONG WITH TOTAL OBSERVATION COUNTS, ARE PRINTED BELOW EACH SUMMARY.

ALSO PROVIDED: A BIVARIATE DISTRIBUTION OF WIND DIRECTION VERSUS WIND SPEED FOR SPECIFIED CEILING/VISIBILITY CONDITIONS. THESE CONDITIONS ARE:

WHEN THE VISIBILITY IS GREATER THAN OR EQUAL TO 1/2 MILES (0800 METERS) THE CEILING MUST BE GREATER THAN OR EQUAL TO 200 FEET BUT LESS THAN 1500 FEET. IF THIS CONDITION IS NOT MET, THEN THE FOLLOWING CONDITION IS TESTED: WHEN THE CEILING IS GREATER THAN OR EQUAL TO 200 FEET, THE VISIBILITY MUST BE GREATER THAN OR EQUAL TO 1/2 (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS).

CONVERSION: 1 KNOT = .514791 METERS PER SECOND



OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

PEAK SURFACE WINDS IN KNOTS  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 4804-9102  
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
48				NW *54	NW *53	*	*	NNW*50	*	*	NNW*54	NW *42	NW *54
49	*	*	*	NNW*39	*	WSW 44	NW 65	W 48	N 40	WNW*54	NW 54	NW 62	NW *65
50	NNW 62	NNW 57	N 78	NNW 56	NNW 58	*	*	NNW*48	NW 38	WNW 55	NNW*49	*	N *78
51	*	*	*	*	*	*	*	*	*	N *51	NW 65	NW *56	NW *65
52	NNW*30	NE *38	NW *59	W *72	WNW*48	NW *69	NW *52	WSW*59	SSW*45	NW 45	NW 54	SW 56	W *72
53	WNW 54	NNW 44	WNW 67	WNW 57	NW 47	WNW 70	S 47	SSW 44	NNW 53	NW 46	WNW 54	W 54	WNW 70
54	WNW 52	NNW 60	NNW 59	NW 50	NW 49	NNW 45	S 59	W 49	NNW 52	NW 43	WNW 60	NW 57	NNW 60
55	NW 60	NW 58	WNW 59	NW 49	WNW 59	NW 49	WSW 43	WSW 59	SSE 48	WNW 48	WNW 50	SW 57	NW 60
56	WNW*50	WNW 41	WNW 60	W 45	NNW 37	S 45	WNW 47	SSW 63	NW 42	NNW 45	NW 53	NNW 50	SSW*63
57	NW 51	N 47	NW 44	NNW 37	N 45	NNW 51	NW 40	NNW 41	N 35	NNW 38	N 38	NW 49	NW 51
58	NW 34	NNW 44	N 32	NNW 38	NW 50	NNW 35	W 40	NNW 35	NNW 40	WNW 48	NNW 61	NW 45	NNW 61
59	NNW 46	NW 43	NW 45	NNW 45	NW 43	NNW 42	NE 70	NW 42	NW 49	NW 52	NW 59	NNW 57	NE 70
60	NNW 46	WNW 37	NW 51	SW 50	NW 41	NW 50	SSW 36	SSW 53	NW 36	NW 49	NW 49	NW 46	SSW 53
61	NW 43	NNW 46	NNW 38	WNW 49	NW 37	NNW 39	NW 47	NNW 33	WNW 37	NW *38	NW *48	NW 53	NW *53
62	NW 47	NW 47	NW 44	NW 54	WNW 39	WNW 55	NNW 31	NW 54	NW 46	NW 49	NW 45	NNW 55	WNW 55
63	NW 52	NW 61	NNW 48	WSW 59	NW 52	SW 62	NNW 61	S 37	NW 34	NNW 35	NW 44	NW 52	SW 62
64	W 44	NNW 46	NW 53	NW 69	WNW 43	NNW 52	SE 53	NW 66	NW 76	NNW 62	NNW 58	NNW 52	NW 76
65	NW 69	NNW 53	NW 45	NW 44	NW 51	SE 47	NW 58	WNW 39	NNW 40	WNW 53	NW 45	NW 42	NW 69
66	WNW 58	NNW 34	NW 66	WNW 52	SW 51	W 49	WNW 53	NNW 48	NNW 36	NW 54	NW 45	NNW 51	NW 66
67	W 65	NW 54	NNW 41	NW 72	NNW 62	N 42	N 39	NNW 36	NW 47	NW 56	NW 46	NW 54	NW 72
68	NW 42	NW 41	NW 45	NW 46	SSE 48	NW 53	32/ 41	27/ 42	34/ 48	32/ 50	32/ 44	34/ 59	34/ 59
69	29/ 59	29/ 37	29/ 53	32/ 53	34/ 54	32/ 40	28/ 60	33/ 45	33/ 44	33/ 50	31/ 50	31/ 54	28/ 60
70	32/ 51	31/ 50	35/ 50	33/ 46	31/ 50	35/ 45	33/ 44	32/ 43	34/ 63	32/ 53	31/ 57	34/ 52	34/ 63
71	30/ 49	32/ 52	32/ 56	33/ 58	24/ 58	31/ 42	33/ 48	32/ 45	31/ 69	34/ 53	34/ 54	27/ 44	31/ 69
72	33/ 44	32/ 59	32/ 48	17/ 47	30/ 56	10/ 38	36/ 37	33/ 37	33/ 42	35/ 40	33/ 46	34/ 44	32/ 59
73	33/ 43	35/ 38	35/ 56	13/ 40	33/ 42	16/ 46	34/ 42	28/ 52	31/ 37	33/ 49	27/ 53	31/ 55	35/ 56
74	26/ 42	33/ 56	25/ 54	32/ 41	28/ 54	35/ 37	25/ 40	32/ 43	32/ 44	32/ 40	32/ 50	34/ 44	33/ 56
75	33/ 48	31/ 58	32/ 57	32/ 52	19/ 54	31/ 57	25/ 66	33/ 47	34/ 50	33/ 46	32/ 62	32/ 44	25/ 66
76	32/ 54	34/ 55	33/ 57	19/ 42	32/ 65	33/ 58	31/ 38	32/ 46	33/ 37	34/ 44	33/ 51	32/ 57	32/ 65
77	34/ 62	32/ 62	34/ 57	34/ 44	31/ 44	34/ 43	33/ 60	01/ 41	33/ 66	32/ 47	32/ 66	33/ 58	33/ 66
78	34/ 46	32/ 50	33/ 40	32/ 57	32/ 51	34/ 58	07/ 41	12/ 47	25/ 44	33/ 49	33/ 50	32/ 49	34/ 58
79	32/ 54	32/ 47	32/ 50	31/ 47	26/ 40	30/ 44	32/ 69	32/ 57	32/ 53	32/ 52	32/ 50	33/ 52	32/ 69
80	33/ 57	33/ 46	33/ 45	31/ 45	32/ 36	34/ 48	34/ 45	33/ 57	33/ 55	33/ 47	31/ 48	32/ 43	33/ 57

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

PEAK SURFACE WINDS IN KNOTS  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 4804-9102  
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
81	31/ 47	32/ 46	33/ 40	34/ 44	31/ 43	32/ 44	33/ 51	32/ 44	33/ 44	32/ 43	32/ 52	32/ 52	32/ 52
82	32/ 53	33/ 42	31/ 58	32/ 62	33/ 44	23/ 35	25/ 68	23/ 38	31/ 40	29/ 43	32/ 48	32/ 43	25/ 68
83	29/ 54	32/ 48	32/ 44	32/ 35	31/ 42	34/ 34	21/ 52	23/ 38	32/ 41	32/ 38	32/ 33	36/ 38	29/ 54
84	33/ 54	31/ 59	33/ 52	33/ 48	33/ 42	32/ 42	30/ 50	02/ 47	33/ 33	36/ 45	33/ 46	32/ 41	31/ 59
85	32/ 51	33/ 42	33/ 38	33/ 41	33/ 46	32/ 42	36/ 40	32/ 45	33/ 38	31/ 57	33/ 45	35/ 54	31/ 57
86	31/ 46	34/ 45	35/ 46	33/ 52	28/ 44	27/ 52	29/ 56	33/ 41	23/ 38	33/ 41	34/ 44	34/ 42	29/ 56
87	34/ 56	34/ 40	33/ 62	34/ 54	32/ 47	34/ 48	34/ 39	23/ 47	34/ 45	34/ 50	34/ 42	32/ 47	33/ 62
88	31/ 55	33/ 50	33/ 60	33/ 52	33/ 53	16/ 41	33/ 41	32/ 41	31/ 51	32/ 61	34/ 50	33/ 46	32/ 61
89	33/ 45	33/ 41	35/ 44	35/ 57	33/ 47	31/ 62	02/ 55	24/ 37	33/ 44	33/ 40	33/ 46	31/ 43	31/ 62
90	30/ 42	33/ 40	32/ 52	34/ 41	32/ 41	32/ 40	32/ 38	32/ 49	32/ 40	33/ 41	31/ 42	33/ 47	32/ 52
91	31/ 47	33/ 51											33/*51
GREATEST	NW 69	32/ 62	N 78	W 72	32/ 65	WNW 70	NE 70	NW 66	NW 76	NNW 62	32/ 66	NW 62	N 78
TOTAL OBS	1233	1126	1213	1205	1233	1180	1211	1252	1206	1269	1226	1254	14608

THE PEAK WIND OF 78 FROM N OCCURRED ON 03/23/50

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF DATA AVAILABLE FOR THE MONTH  
STHE VALUE IS 100 OR GREATER WITH LESS THAN 90% OF DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF DAILY PEAK WINDS  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 4804-9102  
MONTH: ALL HOURS: ALL

MONTH	WIND SPEEDS IN KNOTS											MEAN WIND	MEDIAN WIND	TOTAL OBS
	CALM-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
JAN	.0	5.4	16.8	14.2	14.7	13.5	12.4	9.2	10.8	2.9	.2	25.4	24.0	1233
FEB	.2	3.7	16.2	16.9	17.0	14.8	12.4	8.0	8.4	2.4	.0	24.7	24.0	1126
MAR	.0	2.6	11.9	15.7	17.9	16.5	13.4	9.6	8.9	3.2	.2	26.4	25.0	1213
APR	.1	.7	8.5	15.9	19.1	18.8	14.6	10.4	9.5	2.2	.2	27.1	26.0	1205
MAY	.0	.5	7.8	17.7	22.2	20.4	13.9	9.5	6.4	1.5	.1	26.0	25.0	1233
JUN	.0	1.2	9.4	19.7	22.8	19.7	12.2	7.9	5.6	1.4	.2	25.0	24.0	1180
JUL	.0	.5	11.0	21.4	23.6	18.6	11.6	6.7	5.0	1.2	.4	24.5	23.0	1211
AUG	.0	.6	11.8	22.8	24.7	16.7	11.6	5.8	4.7	1.2	.1	23.8	22.0	1252
SEP	.0	1.2	13.8	21.1	21.6	16.8	12.9	6.4	5.0	.9	.3	24.0	23.0	1206
OCT	.0	2.7	15.1	19.1	17.3	17.4	11.0	8.1	7.5	2.0	.0	24.6	24.0	1269
NOV	.1	4.2	16.8	16.9	16.2	13.6	12.9	6.9	9.5	2.9	.2	24.8	23.0	1226
DEC	.2	7.4	15.6	16.0	14.8	12.4	12.3	8.1	9.8	3.4	.0	24.8	23.0	1254
ANNUAL	.0	2.6	12.9	18.1	19.3	16.6	12.6	8.0	7.6	2.1	.2	25.1	24.0	14608

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JAN HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	.8	2.5	2.9	.8	.6	.3						7.8	11.1	10.0
020-040	.4	.9	.3	.1								1.7	7.1	6.5
050-070	.4	.5										1.0	4.1	5.0
(E) 080-100	.4	.4	.1									1.0	5.4	5.0
110-130	.8	.5	.9									2.2	7.0	7.0
140-160	2.0	2.9	1.4									6.3	6.4	6.0
(S) 170-190	2.0	1.3	.2		.2	.1						3.9	6.2	4.0
200-220	2.5	1.3	.1									3.9	4.0	4.0
230-250	4.4	2.3										6.7	4.0	4.0
(W) 260-280	8.2	4.8	.2	.1								13.3	4.2	4.0
290-310	5.3	3.1	.6	1.5	.5	.4						11.5	7.8	5.0
320-340	2.3	4.4	5.5	6.8	4.1	1.5	.4	.1				25.1	14.6	15.0
VARIABLE														
CALM	////////////////////////////////////											15.7	////////	
TOTALS	29.5	24.9	12.2	9.3	5.4	2.3	.4	.1				100.0	7.4	6.0
TOTAL NUMBER OF OBSERVATIONS 930														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JAN HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.5	3.1	2.9	1.3	1.3	.2	.1					10.4	11.5	10.0
020-040	.5	1.0	.4									1.9	6.6	6.5
050-070	.4	.4	.1									1.0	5.2	6.0
(E) 080-100	.2	.3	.1									.6	5.8	6.5
110-130	.9	1.3	.6	.1								2.9	7.2	7.0
140-160	.6	1.7	1.4									3.8	7.7	8.0
(S) 170-190	1.8	.5	.9	.2								3.4	6.6	4.0
200-220	3.0	.5										3.5	3.3	3.0
230-250	5.8	2.4	.2									8.4	3.8	3.0
(W) 260-280	9.1	3.0	.3	.2								12.7	4.0	4.0
290-310	6.5	2.5	.9	1.6	1.2	.3	.2					13.1	8.5	5.0
320-340	2.3	5.6	5.6	4.8	3.3	1.9	.3					23.9	13.9	13.0
VARIABLE														
CALM	////////////////////////////////////											14.3	////////	
TOTALS	32.6	22.3	13.4	8.2	5.8	2.4	.6					100.0	7.5	7.0
TOTAL NUMBER OF OBSERVATIONS 930														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JAN HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.6	2.5	2.3	2.2	1.0	.2	.1					9.8	11.4	10.0
020-040	.6	.8	.4	.1								1.9	7.3	6.5
050-070	.4	.6										1.1	4.7	5.0
(E) 080-100	.8	.2		.1								1.1	4.9	4.0
110-130	1.1	2.2	.2	.1								3.5	6.1	6.0
140-160	1.4	1.5	1.0									3.9	6.6	7.5
(S) 170-190	1.5	2.0	.3	.1								4.0	5.8	6.0
200-220	2.4	1.1										3.4	3.8	4.0
230-250	3.9	2.3	.1									6.2	3.9	4.0
(W) 260-280	7.3	3.1	.4	.1	.1							11.1	4.1	3.0
290-310	6.8	2.5	1.8	.5	1.1	1.0	.3	.1				14.1	8.9	5.0
320-340	2.7	5.6	7.2	3.4	2.5	1.5	.8					23.7	13.0	12.0
VARIABLE														
CALM	////////////////////////////////////											16.2	////////////////////////////////	
TOTALS	30.5	24.4	13.7	6.6	4.7	2.7	1.2	.1				100.0	7.2	6.0
TOTAL NUMBER OF OBSERVATIONS 930														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JAN HOURS: 09-11

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		1.6	2.4	3.1	1.9	.8	.1						9.9	11.1	12.0
020-040		1.8	.8	.2	.1								2.9	4.9	4.0
050-070		.8	.6	.1									1.5	5.1	4.5
(E) 080-100		.6	.3	.2									1.2	5.5	4.0
110-130		1.1	1.5	.1	.1								2.8	6.1	6.0
140-160		4.0	3.0	1.3	.2								8.5	5.8	5.0
(S) 170-190		3.8	3.7	1.3	.2								8.9	6.0	5.0
200-220		4.3	1.1	.1									5.5	3.6	4.0
230-250		3.7	1.3	.2	.1								5.3	4.1	3.0
(W) 260-280		2.7	.9	.6	.5	.1							4.8	6.6	4.0
290-310		3.2	1.2	1.6	2.0	.5	.6	.1	.1				9.5	11.0	10.0
320-340		2.4	2.7	6.2	5.7	3.3	2.9	1.1	.1	.2			24.6	15.9	15.0
VARIABLE															
CALM		////////////////////////////////////											14.6	////////////////////////////////	
TOTALS		30.0	19.5	15.0	10.8	4.7	3.6	1.2	.2	.2			100.0	8.3	7.5
TOTAL NUMBER OF OBSERVATIONS 930															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JAN HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.9	4.6	5.1	2.6	1.4	.3	.2					16.1	11.4	10.5
020-040	2.4	1.9	.4									4.7	5.2	5.0
050-070	1.6	.2	.1									1.9	3.9	4.0
(E) 080-100	1.4	.8	.2									2.4	4.6	4.0
110-130	2.5	2.7										5.2	4.5	5.0
140-160	3.1	4.2	2.7	1.0	.2							11.2	7.8	7.0
(S) 170-190	3.5	5.9	1.4	.8	.1							11.7	6.8	6.0
200-220	1.4	.2	.1	.1								1.8	4.3	3.0
230-250	1.0	.3	.6	.1	.1							2.2	7.3	7.0
(W) 260-280	.5	.5	.3	.2								1.6	7.4	6.0
290-310	.8	1.3	1.2	1.6	.8	1.2	.4					7.2	15.7	15.0
320-340	1.7	2.4	5.7	6.5	6.0	3.0	1.6	.3				27.2	17.4	18.0
VARIABLE														
CALM	////////////////////////////////////											6.8	////////////////////////////////	
TOTALS	21.8	25.0	17.8	12.9	8.6	4.5	2.2	.3				100.0	10.4	9.0
TOTAL NUMBER OF OBSERVATIONS 930														



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JAN HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	2.7	5.2	5.3	2.3	1.0	.2	.1					16.7	10.4	10.0
020-040	1.4	2.5	1.0	.1								4.9	6.8	6.0
050-070	2.2	1.3										3.4	4.3	4.0
(E) 080-100	.8	1.1										1.8	4.7	5.0
110-130	1.9	1.6	1.2	.2								4.9	6.7	6.0
140-160	3.2	4.8	2.4	.5								11.0	7.2	7.0
(S) 170-190	4.4	3.3	1.6	.4	.1							9.9	6.1	5.0
200-220	1.3	.5		.1								1.9	4.6	4.0
230-250	.3	.4	.1	.1	.3							1.3	10.2	6.0
(W) 260-280	1.5	1.1	.4									3.0	5.5	4.5
290-310	1.6	1.8	1.0	.4	1.1	.4						6.3	11.0	8.0
320-340	1.4	4.0	5.4	6.5	4.6	3.0	1.1	.1				26.0	16.3	16.0
VARIABLE														
CALM	////////////////////											8.7	////////	
TOTALS	22.7	27.6	18.4	10.6	7.1	3.6	1.2	.1				100.0	9.3	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JAN HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.4	3.4	2.3	2.6	.8		.1					10.5	11.1	10.0
020-040	.9	1.4	.3									2.6	6.0	6.0
050-070	.4	.8										1.2	5.4	6.0
(E) 080-100	.4	.5	.1									1.1	6.1	5.0
110-130	1.1	1.0	.4									2.5	6.1	6.0
140-160	2.8	2.8	2.3	.1								8.0	7.2	7.5
(S) 170-190	3.7	3.1	.4	.2								7.4	5.2	5.0
200-220	3.8	.6	.1									4.5	3.5	3.0
230-250	3.1	.9	.1	.2								4.3	4.6	4.0
(W) 260-280	5.6	2.0	.3									8.0	3.9	3.0
290-310	6.5	2.5	1.0	.6	.6	.5						11.7	7.2	4.0
320-340	2.2	4.8	5.7	4.4	3.9	2.4	.2					23.5	14.2	14.0
VARIABLE														
CALM	////////////////////											14.7	////////	
TOTALS	31.9	23.8	13.0	8.1	5.3	2.9	.3					100.0	7.4	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JAN HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.3	2.5	2.5	2.4	.8		.1					9.5	11.8	12.0
020-040	.2	.4										.6	6.2	6.5
050-070	1.0	.4										1.4	3.8	3.0
(E) 080-100	.3	.2										.5	4.6	4.0
110-130	1.1	.9	.5									2.5	6.1	5.0
140-160	2.3	2.7	1.9	.3								7.2	7.3	7.0
(S) 170-190	2.9	2.5	.6	.2	.1							6.3	5.8	5.0
200-220	3.1	1.4	.1									4.6	3.9	4.0
230-250	3.4	1.2		.2								4.8	4.2	4.0
(W) 260-280	8.2	4.4	.1	.1								12.8	4.1	4.0
290-310	7.3	2.7	1.4	1.1	.5							13.0	6.3	4.0
320-340	2.7	4.2	3.9	4.7	4.5	1.6	.6					22.3	14.6	16.0
VARIABLE														
CALM	////////////////////////////////////											14.4	////////	
TOTALS	33.8	23.5	11.0	9.0	5.9	1.6	.7					100.0	7.2	6.0
TOTAL NUMBER OF OBSERVATIONS 930														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JAN HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.6	3.3	3.3	2.0	.9	.2	.1					11.3	11.2	10.0
020-040	1.0	1.2	.4	.1								2.7	6.1	6.0
050-070	.9	.6	.0									1.6	4.5	4.0
(E) 080-100	.6	.5	.1	.0								1.2	5.1	4.0
110-130	1.3	1.5	.5	.1								3.3	6.1	6.0
140-160	2.4	3.0	1.8	.3	.0							7.5	7.0	6.5
(S) 170-190	3.0	2.8	.8	.3	.1	.0						6.9	6.1	5.0
200-220	2.7	.8	.1	.0								3.7	3.8	4.0
230-250	3.2	1.4	.2	.1	.1							4.9	4.4	4.0
(W) 260-280	5.4	2.5	.3	.2	.0							8.4	4.4	4.0
290-310	4.7	2.2	1.2	1.2	.8	.6	.1	.0				10.8	9.0	6.0
320-340	2.2	4.2	5.6	5.3	4.0	2.2	.8	.1	.0			24.5	15.0	15.0
VARIABLE														
CALM	////////////////////////////////////											13.2	////////	
TOTALS	29.0	24.0	14.3	9.6	5.9	3.0	1.0	.1				100.0	8.1	7.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JAN HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).

AND/OR

VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.9	4.6	7.6	4.4	1.3		.6					20.3	12.6	12.0
020-040	1.5	4.4	1.5	.4								7.8	7.5	7.0
050-070	2.1	3.4	.4									5.9	5.3	5.0
(E) 080-100	1.5	1.9	.4									3.8	5.4	5.0
110-130	2.5	5.7	3.0	.2								11.4	7.3	7.0
140-160	3.8	7.6	5.9	.4								17.6	8.0	8.0
(S) 170-190	1.5	1.9	1.3	.6								5.3	8.1	7.0
200-220	.8											.8	2.3	2.0
230-250														
(W) 260-280	.2											.2	2.0	2.0
290-310	1.3			.2	.2	.4	.2					2.3	11.0	3.0
320-340	.4	2.5	4.0	2.3	3.6	3.8	1.3		.2			18.0	18.4	19.0
VARIABLE														
CALM	////////////////////////////////////											6.6	////////////////////////////////	
TOTALS	17.5	32.0	24.1	8.5	5.1	4.2	2.1		.2			100.0	9.9	9.0

TOTAL NUMBER OF OBSERVATIONS 527

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: FEB HOURS: 00-02

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		2.1	3.2	4.3	1.1	1.1	.2						11.9	10.4	10.0
020-040		1.2	1.2	.8									3.2	6.8	6.0
050-070		.5	1.3										1.8	5.2	6.0
(E) 080-100		.8											.8	3.1	3.0
110-130		1.4	.8										2.2	4.3	4.0
140-160		2.6	2.8	.8	.2								6.5	6.3	5.0
(S) 170-190		2.8	1.8	.7	.4								5.7	5.9	4.5
200-220		2.0	.6										2.6	3.6	4.0
230-250		4.5	1.1	.1									5.7	3.2	2.5
(W) 260-280		8.2	3.0										11.1	3.4	3.0
290-310		6.9	2.1	.1	.4		.2						9.7	4.7	4.0
320-340		3.2	4.5	5.2	3.9	3.4	.6	.1	.1				21.0	12.7	12.0
VARIABLE															
CALM		////////////////////////////////////											17.7	////////////////////////////////	
TOTALS		36.2	22.4	12.0	6.0	4.5	1.0	.1	.1				100.0	6.2	5.0
TOTAL NUMBER OF OBSERVATIONS 846															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: FEB HOURS: 03-05

DIRECTION (DEGREES)		WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	MEDIAN WIND	
		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64				GE 65
(N)	350-010	2.8	4.1	3.2	2.4	1.1	.4						13.9	10.6	9.5
	020-040	.5	1.1	.7		.1							2.4	8.0	8.0
	050-070	1.3	.2										1.5	3.5	3.0
(E)	080-100	.7	.1	.1									.9	4.1	3.5
	110-130	1.1	1.4	.2									2.7	5.6	5.0
	140-160	1.8	2.6	1.1	.2								5.7	6.8	6.0
(S)	170-190	.9	1.5	.7	.2								3.4	7.0	6.0
	200-220	1.3	.2										1.5	2.8	3.0
	230-250	3.1	.6										3.7	3.0	3.0
(W)	260-280	10.2	3.4	.2	.1								13.9	3.6	3.0
	290-310	10.3	3.1	.4	.7		.1						14.5	4.5	3.0
	320-340	1.9	4.6	4.0	4.0	2.4	1.2	.5					18.6	13.6	13.0
VARIABLE															
CALM		////////////////////////////////////										17.1	////////////////////////////////		
TOTALS		35.9	22.9	10.6	7.6	3.6	1.7	.5					100.0	6.4	5.0

TOTAL NUMBER OF OBSERVATIONS 846

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: FEB HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	2.4	3.4	2.7	2.1	.6	.1	.1					11.5	10.2	9.0
020-040	1.1	1.4	.5									3.0	6.1	6.0
050-070	1.1	.4										1.4	3.6	3.0
(E) 080-100	.9	.7	.1	.1								1.9	5.4	4.5
110-130	.6	.8	.8	.4								2.6	9.0	9.0
140-160	1.2	2.2	1.4	.2								5.1	7.6	8.0
(S) 170-190	1.9	1.3	.6									3.8	5.3	4.5
200-220	2.7	.2										3.0	2.8	3.0
230-250	4.6	.9										5.6	3.2	3.0
(W) 260-280	9.1	1.8	.1									11.0	3.4	3.0
290-310	7.4	3.5	.9	.4	.1							12.4	4.8	4.0
320-340	2.2	4.4	4.6	5.6	2.5	1.2	.1					20.6	13.2	13.5
VARIABLE														
CALM	////////////////////////////////////											18.3	////////	
TOTALS	35.2	21.0	11.7	8.8	3.2	1.3	.2					100.0	6.3	6.0

TOTAL NUMBER OF OBSERVATIONS 846



OPERATING LOCATION "A"  
USAFETAC, FARMVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: FEB HOURS: 09-11

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		1.9	4.1	4.6	1.9	2.2							14.8	11.5	12.0
020-040		1.8	1.8	.7									4.3	5.6	5.0
050-070		1.2	1.4	.1									2.7	5.3	6.0
(E) 080-100		1.4	.5	.6									2.5	5.6	4.0
110-130		.9	1.2	.7	.2								3.1	7.6	6.5
140-160		3.3	3.8	1.2	.9								9.2	7.1	6.5
(S) 170-190		3.5	4.5	2.2	.6	.1							11.0	7.1	6.0
200-220		4.4	.7	.1									5.2	3.4	3.0
230-250		3.8	1.2	.1									5.1	3.4	3.0
(W) 260-280		2.5	1.2	.2									3.9	4.5	4.0
290-310		1.3	.8	.6	.2	.2							3.2	8.3	7.0
320-340		1.5	3.9	6.3	5.2	4.1	3.4	.5					24.9	15.8	15.0
VARIABLE															
CALM		////////////////////////////////////											10.2	////////////////////////////////	
TOTALS		27.5	25.1	17.4	9.0	6.6	3.4	.5					100.0	8.6	8.0
TOTAL NUMBER OF OBSERVATIONS 846															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: FEB HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	2.4	5.1	7.0	4.4	1.2	.4						20.3	11.4	11.5
020-040	2.4	2.2	1.7									6.3	6.2	6.0
050-070	2.1	1.3	.2									3.7	4.7	4.0
(E) 080-100	1.9	.5		.4								2.7	4.9	3.0
110-130	3.1	2.5	.8	.2	.1							6.7	6.0	5.0
140-160	3.8	4.7	4.8	2.1	.5							16.0	9.0	9.0
(S) 170-190	1.8	3.4	2.0	.5	.5							8.2	8.4	7.0
200-220	.6	.1										.7	3.0	3.0
230-250	.8	.2										1.1	3.1	2.0
(W) 260-280	.1	.4		.4	.1							.9	12.0	13.0
290-310	1.3	.2	.9	.4	.1							3.0	8.2	5.0
320-340	1.2	2.6	4.4	6.3	7.2	3.5	.8	.4				26.4	17.9	18.0
VARIABLE														
CAIM	////////////////////////////////////											4.1	////////////////////////////////	
TOTALS	21.5	23.2	21.8	14.7	9.7	7.7	.8	.4				100.0	10.7	10.0

TOTAL NUMBER OF OBSERVATIONS 846

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: FEB HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	2.6	7.0	7.7	5.4	1.2	.6						24.5	11.4	11.0
020-040	3.1	4.1	1.5	.2								9.0	6.5	6.0
050-070	1.1	1.5	.5									3.1	5.9	5.0
(E) 080-100	1.7	1.7	.1	.1								3.6	5.3	5.0
110-130	1.4	3.8	1.4	.4	.1							7.1	7.4	7.0
140-160	4.3	4.6	3.3	1.1	.1							13.4	7.7	6.0
(S) 170-190	3.3	2.1	1.1	.8	.4							7.7	7.7	6.0
200-220	.9		.1									1.1	3.6	3.0
230-250	.4	.2										.6	3.2	4.0
(W) 260-280	.1	.2	.1	.4								.8	10.9	10.0
290-310	.4	.4	.9	.4								2.0	10.2	10.0
320-340	1.3	3.3	5.2	4.9	5.3	1.2	.6	.1				21.9	15.5	16.0
VARIABLE														
CALM	////////////////////////////////////											5.3	////////////////////////////////	
TOTALS	20.6	28.9	21.9	13.7	7.1	1.8	.6	.1				100.0	9.6	9.0
TOTAL NUMBER OF OBSERVATIONS 845														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: FEB HOURS: 18-20

DIRECTION (DEGREES)		WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	MEDIAN WIND	
		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64				GE 65
(N)	350-010	1.3	4.6	6.2	2.4	.9	.1						15.5	11.2	10.0
	020-040	2.0	2.0	.8									4.9	5.9	6.0
	050-070	1.9	.9	.1									3.0	4.4	4.0
(E)	080-100	2.3	.9	.1									3.3	4.4	4.0
	110-130	1.5	2.4	.9	.1								5.0	6.7	6.0
	140-160	3.3	2.1	.9	.5								6.9	6.3	5.0
(S)	170-190	3.0	2.5	.5	.6								6.5	6.0	5.0
	200-220	3.0	.5										3.4	3.2	3.0
	230-250	1.9	.5										2.4	3.2	3.0
(W)	260-280	4.0	1.2										5.2	3.4	3.0
	290-310	3.7	2.1	.2	.1								6.2	4.8	4.0
	320-340	2.7	5.9	4.7	5.8	2.3	.5						21.9	12.0	12.0
VARIABLE															
CALM		////////////////////										15.8	////////		
TOTALS		30.6	25.6	14.4	9.5	3.2	.6						100.0	6.8	6.0

TOTAL NUMBER OF OBSERVATIONS 843

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: FEB HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.8	3.6	4.9	1.1	.6	.7	.1					12.7	11.1	10.0
020-040	1.5	1.5	.7	.2								4.0	6.7	6.0
050-070	.7	.5										1.2	4.2	2.0
(E) 080-100	.4	.2										.6	4.6	4.0
110-130	1.4	1.2	.4									3.0	4.9	5.0
140-160	2.1	2.5	1.4	.2								6.3	7.0	6.0
(S) 170-190	4.6	2.5	.5	.1								7.7	5.1	4.0
200-220	2.8	.8	.1									3.8	3.9	3.0
230-250	4.9	.8	.1									5.8	3.1	2.0
(W) 260-280	5.7	2.5										8.2	3.4	3.0
290-310	6.6	2.0	.7	.5								9.8	4.9	4.0
320-340	2.1	4.0	5.1	4.2	2.5	.1						18.0	12.2	12.0
VARIABLE														
CALM	////////////////////											18.9	////////	
TOTALS	34.6	22.1	13.9	6.3	3.1	.8	.1					100.0	6.0	6.0

TOTAL NUMBER OF OBSERVATIONS 843

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: FEB HOURS: ALL

WIND SPEED IN KNOTS														
DIRECTION	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(DEGREES)												%	WIND	WIND
(N) 350-010	2.2	4.4	5.1	2.6	1.1	.3	.0					15.6	11.1	10.0
020-040	1.7	1.9	.9	.1	.0							4.6	6.4	6.0
050-070	1.2	.9	.1									2.3	4.8	4.0
(E) 080-100	1.3	.6	.1	.1								2.0	4.9	4.0
110-130	1.4	1.8	.7	.2	.0							4.1	6.6	6.0
140-160	2.8	3.2	1.9	.7	.1							8.6	7.5	7.0
(S) 170-190	2.7	2.5	1.0	.4	.1							6.7	6.7	6.0
200-220	2.2	.4	.0									2.7	3.4	3.0
230-250	3.0	.7	.0									3.7	3.2	3.0
(W) 260-280	5.0	1.7	.1	.1	.0							6.9	3.8	3.0
290-310	4.7	1.8	.6	.4	.1	.0						7.6	5.3	4.0
320-340	2.0	4.2	4.9	5.0	3.7	1.5	.3	.1				21.7	14.3	14.0
VARIABLE														
CALM	////////////////////////////////////											13.4	////////////////////////////////	
TOTALS	30.2	24.1	15.4	9.6	5.1	1.8	.3	.1				100.0	7.6	7.0

TOTAL NUMBER OF OBSERVATIONS 6761

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: FEB HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
AND/OR  
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	3.0	9.2	15.2	6.1	.7	.4						34.7	10.8	10.0
020-040	3.1	7.5	5.8	.3								16.7	7.9	8.0
050-070	2.1	3.9	1.0									8.0	6.0	5.5
(E) 080-100	1.5	1.6	1.2	.6								4.9	7.7	6.0
110-130	1.1	2.5	1.6	.3								6.6	7.2	6.0
140-160	1.8	3.1	2.2	1.8	.1							9.1	9.5	9.0
(S) 170-190	.9	.9	.3	.1								2.2	6.9	6.0
200-220	.4	.1										.6	3.0	2.0
230-250	.1											.1	3.0	3.0
(W) 260-280														
290-310	.4	.1										.6	3.5	2.0
320-340	.9	1.9	3.0	2.8	1.5	.1						10.3	13.2	14.0
VARIABLE														
CALM	////////////////////											6.1	////////	
TOTALS	11.3	30.8	30.3	12.0	2.3	.5						100.0	8.8	9.0

TOTAL NUMBER OF OBSERVATIONS 671

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAR HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.1	3.7	1.8	1.4	.5		.2					8.7	10.5	8.0
020-040	.6	1.1		.1								1.8	6.1	6.0
050-070	.6	1.0										1.6	5.4	6.0
(E) 080-100	1.0	1.6	.3									2.9	5.9	6.0
110-130	1.5	1.5	1.5									4.5	7.3	6.5
140-160	3.7	5.5	1.4	.8	.3							11.6	7.1	6.0
(S) 170-190	3.2	3.3	1.8	.8	.3							9.5	7.9	6.0
200-220	3.1	1.4										4.5	3.9	4.0
230-250	3.8	1.4	.1									5.3	3.7	3.0
(W) 260-280	5.9	3.0	.5	.2								9.7	4.6	4.0
290-310	4.8	2.8	.3			.1		.1				8.2	4.9	3.5
320-340	2.6	4.5	3.7	2.9	2.8	1.2	.5	.5	.3			19.0	14.3	12.0
VARIABLE														
CALM	////////////////////////////////////											12.7	////////	
TOTALS	31.9	30.8	11.4	6.2	3.9	1.3	.7	.6	.3			100.0	7.1	6.0
TOTAL NUMBER OF OBSERVATIONS 930														



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAR HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	.8	3.5	2.3	1.8	.8	.3	.1					9.6	11.9	11.0
020-040	.9	1.1	.2	.2								2.4	6.8	6.0
050-070	.6	1.0										1.6	5.3	5.0
(E) 080-100	1.5	1.1	.2									2.8	4.9	4.0
110-130	1.5	2.2	1.1									4.7	6.8	6.5
140-160	3.0	3.9	1.5	.9	.3							9.6	7.8	6.0
(S) 170-190	2.6	2.3	1.3	.9	.4							7.4	8.3	7.0
200-220	3.2	1.2	.2									4.6	4.0	4.0
230-250	2.7	1.2	.1									4.0	3.7	4.0
(W) 260-280	6.0	2.1	.2									8.5	3.9	4.0
290-310	6.5	1.8	1.1	.1	.1	.1		.1				9.8	5.2	3.0
320-340	2.8	4.0	3.5	4.1	3.4	2.0	.2	.5	.2			20.9	14.9	15.0
VARIABLE														
CALM	////////////////////////////////////											14.2	////////////////////////////////	
TOTALS	32.1	25.6	11.7	8.0	5.0	2.4	.3	.6	.2			100.0	7.5	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: MAR HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.3	2.5	3.5	1.6	1.3	.3	.1					10.6	12.3	12.0
020-040	.9	1.6	.4	.1	.1							3.1	7.2	6.0
050-070	1.1	1.1		.1								2.3	5.3	5.0
(E) 080-100	1.3	1.1	.5									2.9	5.8	5.0
110-130	1.2	2.7	1.2									5.1	7.1	7.0
140-160	2.0	4.0	1.2	1.2	.3	.1						8.8	8.6	7.5
(S) 170-190	2.6	2.5	1.9	.5	.3	.1						8.0	8.2	6.0
200-220	2.5	1.0										3.4	3.4	3.0
230-250	3.4	.9										4.3	3.3	3.0
(W) 260-280	4.4	2.0	.1	.1								6.7	3.9	3.0
290-310	6.0	1.7	.4	.3		.4						8.9	5.5	4.0
320-340	2.3	3.4	3.5	3.4	4.0	2.8	.8	.2	.5			21.0	16.6	17.0
VARIABLE														
CALM	////////////////////////////////////											14.9	////////	
TOTALS	29.0	24.5	12.7	7.3	6.0	3.7	.9	.2	.5			100.0	8.1	7.0
TOTAL NUMBER OF OBSERVATIONS 930														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAR HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.7	3.9	5.4	3.8	2.0	.8						17.5	12.5	12.0
020-040	1.6	2.3	.5	.5	.1							5.1	7.1	6.0
050-070	1.6	1.0	.5									3.1	6.0	4.0
(E) 080-100	.9	1.5	.4	.1								2.9	6.6	6.0
110-130	2.7	4.5	1.1	.4	.1							8.8	6.7	6.0
140-160	2.8	6.6	4.8	1.2	.3		.1					15.8	8.9	8.0
(S) 170-190	1.6	3.5	1.9	1.1	.5							8.7	9.4	8.0
200-220	1.3	.8	.2									2.3	4.6	4.0
230-250	.5	.2	.1									.9	5.0	4.0
(W) 260-280	1.2	.6	.3	.1								2.3	5.5	4.0
290-310	.6	.1	.2	.5	1.0	.2	.1					2.8	16.0	18.0
320-340	1.4	2.4	3.3	4.6	5.6	2.3	1.4	.6	.3			21.9	18.3	18.0
VARIABLE														
CALM	////////////////////////////////////											8.0	////////	
TOTALS	17.9	27.4	18.7	12.3	9.6	3.3	1.6	.5	.3			100.0	10.5	10.0
TOTAL NUMBER OF OBSERVATIONS 930														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: MAR HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.7	2.8	6.1	6.3	2.9	.2	.3					20.4	13.7	14.0
020-040	2.5	3.1	2.0	.2								7.8	7.4	7.0
050-070	1.7	1.3	1.2									4.2	6.3	7.0
(E) 080-100	1.8	2.4	.5									4.7	5.8	6.0
110-130	2.3	5.1	2.8	.5	.2	.1						11.0	8.2	8.0
140-160	1.5	4.0	5.5	2.3	.4	.2						13.9	10.7	11.0
(S) 170-190	1.5	2.3	2.6	1.5	.4	.2	.1					8.6	11.0	10.0
200-220	.5	.1		.1								.8	4.9	3.0
230-250	.1	.1	.4									.6	9.8	10.5
(W) 260-280		.2	.4	.1								.8	11.7	13.0
290-310	.2	.8	.6	.5	.5	.5	.2					3.4	16.0	15.5
320-340	.3	1.1	3.0	5.1	5.2	2.5	2.2	.6	.2			20.1	20.1	20.0
VARIABLE														
CALM	////////////////////////////////////											3.7	////////////////////////////////	
TOTALS	14.1	23.3	25.1	16.6	9.6	3.7	2.8	.6	.2			100.0	12.0	12.0
TOTAL NUMBER OF OBSERVATIONS 930														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAR HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.6	3.0	7.7	4.3	2.4	.8	.1	.1				20.0	13.5	13.0
020-040	1.9	3.9	1.5	.3								7.6	7.3	7.0
050-070	1.7	2.8	1.0									5.5	6.5	6.0
(E) 080-100	2.7	3.1	1.6	.2								7.6	6.6	6.0
110-130	1.3	3.9	3.4	.4								9.0	8.7	8.5
140-160	1.6	4.6	4.2	2.7								13.1	10.2	10.0
(S) 170-190	1.6	1.3	1.1	.8	.5							5.3	9.5	8.0
200-220	.5	.4	.1	.1								1.2	6.4	6.0
230-250	.3	.2	.5	.2								1.3	9.2	10.0
(W) 260-280	.6	1.1	.1	.1								1.9	6.1	5.5
290-310	.8	.3	.3	.5	.1	.3						2.4	11.7	12.5
320-340	1.1	1.4	4.3	5.6	4.8	2.0	1.3	.4	.1			21.1	18.0	18.0
VARIABLE														
CALM	////////////////////////////////////											4.0	////////	
TOTALS	15.7	26.0	25.8	15.2	7.8	3.1	1.4	.5	.1			100.0	11.1	10.0
TOTAL NUMBER OF OBSERVATIONS 930														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: MAR HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	2.0	6.2	3.7	1.9	1.4	.2						15.5	10.4	9.0
020-040	1.8	3.5	1.2	.1								6.7	7.0	7.0
050-070	2.0	2.3	.6									4.9	5.8	6.0
(E) 080-100	1.7	3.4	1.4	.1								6.7	6.7	6.0
110-130	2.0	4.5	3.0	.5								10.1	7.9	8.0
140-160	2.8	4.8	2.5	.2								10.3	7.3	7.0
(S) 170-190	1.9	2.3	1.8	.5	.1							6.7	8.2	8.0
200-220	1.3	.8		.1								2.2	4.5	3.0
230-250	.9	.4	.1									1.4	4.2	4.0
(W) 260-280	2.0	.4	.1									2.6	3.3	2.0
290-310	2.0	2.2	1.1									5.3	5.9	5.0
320-340	1.2	4.5	6.0	2.0	2.4	1.4	.3	.4	.2			18.5	14.1	12.0
VARIABLE														
CALM	////////////////////////////////////											9.2	////////////////////////////////	
TOTALS	21.6	35.3	21.5	5.4	3.9	1.6	.3	.4	.2			100.0	8.1	8.0
TOTAL NUMBER OF OBSERVATIONS 930														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAR HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	MEDIAN WIND	
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64				GE 65
(N) 350-010	2.6	3.2	2.4	1.6	1.0	.1						10.9	9.8	8.0
020-040	.9	1.8	.4									3.1	6.6	7.0
050-070	1.0	1.5	.4									2.9	5.9	6.0
(E) 080-100	1.7	1.8	.3									3.9	5.6	5.5
110-130	1.5	3.1	2.5	.4	.1							7.6	8.4	8.0
140-160	2.9	4.7	2.6	.6	.2							11.1	7.7	7.0
(S) 170-190	3.1	2.8	1.8	.6								8.4	6.8	6.0
200-220	3.7	1.0										4.6	3.6	3.0
230-250	3.0	1.0	.1									4.1	3.9	3.5
(W) 260-280	5.1	2.6	.1									7.7	3.9	4.0
290-310	4.8	2.4	.9	.2	.1							8.4	5.4	4.0
320-340	1.5	4.8	4.3	3.2	1.1	1.2	.2	.5	.3			17.2	14.0	12.0
VARIABLE														
CALM	////////////////////////////////////										10.1	////////////////////////////////		
TOTALS	31.8	30.7	15.8	6.6	2.5	1.3	.2	.5	.3			100.0	7.2	6.0
TOTAL NUMBER OF OBSERVATIONS 930														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: MAR HOURS: ALL

WIND SPEED IN KNOTS														
DIRECTION	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(DEGREES)												%	WIND	WIND
(N) 350-010	1.6	3.6	4.1	2.8	1.5	.3	.1	.0				14.2	12.1	12.0
020-040	1.4	2.3	.8	.7	.0							4.7	7.1	7.0
050-070	1.3	1.5	.5	.0								3.3	6.0	6.0
(E) 080-100	1.6	2.0	.7	.1								4.3	6.1	6.0
110-130	1.7	3.4	2.1	.3	.1	.0						7.6	7.7	8.0
140-160	2.5	4.8	3.0	1.2	.2	.0	.0					11.8	8.7	8.0
(S) 170-190	2.3	2.5	1.8	.8	.3	.0	.0					7.8	8.6	7.0
200-220	2.0	.8	.1	.0								2.9	4.1	4.0
230-250	1.8	.7	.	.0								2.7	4.2	4.0
(W) 260-280	3.2	1.5	.2	.1								5.0	4.4	4.0
290-310	3.2	1.5	.6	.3	.2	.2	.0	.0				6.1	7.0	4.0
320-340	1.6	3.3	4.0	3.9	3.7	1.9	.9	.5	.3			20.0	16.4	16.0
VARIABLE														
CALM	////////////////////////////////////											9.6	////////////////////////////////	
TOTALS	24.2	27.9	18.1	9.7	6.0	2.4	1.0	.5	.3			100.0	8.9	8.0
TOTAL NUMBER OF OBSERVATIONS 7440														



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: MAR HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
AND/OR  
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.6	5.4	5.9	2.9	2.4	.7	.1					19.0	12.4	12.0
020-040	1.8	4.8	1.4	1.1	.1							9.1	8.2	8.0
050-070	2.0	3.4	1.7	.1								7.2	7.1	7.5
(E) 080-100	2.1	5.5	1.9	.1								9.7	7.1	8.0
110-130	2.3	5.7	5.2	.9	.1							14.3	8.7	8.5
140-160	2.6	5.0	2.1	1.0	.5							11.2	8.2	8.0
(S) 170-190	.5	1.9	1.3		.2							3.9	8.6	8.0
200-220	.2		.1									.3	5.0	3.0
230-250														
(W) 260-280	.2											.2	2.0	2.0
290-310	.4	.4				.1		.2				1.2	12.4	6.0
320-340	2.3	1.5	3.5	4.0	5.1	2.1	1.0	.7				20.3	17.3	18.0
VARIABLE														
CALM	////////////////////////////////////											3.5	////////	
TOTALS	15.0	33.6	23.1	10.1	8.4	2.9	1.1	.9				100.0	10.5	9.0

TOTAL NUMBER OF OBSERVATIONS 940

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAND CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: APR HOURS: 00-02

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		1.3	2.0	2.7	.6	.3							6.9	9.5	10.0
020-040		.4	.9	.3									1.7	6.3	6.0
050-070		.1	.7	.2									1.0	7.9	8.0
(E) 080-100		.1	.9	.1									1.1	6.3	6.0
110-130		.3	1.1	.3									1.8	6.7	6.5
140-160		2.2	4.4	2.6	1.0	.4							10.7	8.7	7.0
(S) 170-190		3.2	4.4	1.6	.9	.2							10.3	7.5	6.0
200-220		3.1	2.4	.2									5.8	4.3	4.0
230-250		4.8	1.4		.1								6.3	3.7	3.0
(W) 260-280		5.2	3.9	.3									9.4	4.4	4.0
290-310		5.8	2.0	.8	.4	.4	.1						9.6	6.1	4.0
320-340		3.6	5.3	6.6	3.8	3.2	1.0	1.0	.3				24.8	13.2	12.0
VARIABLE															
CALM		////////////////////////////////////											10.7	////////////////////////////////	
TOTALS		30.1	29.4	15.7	6.8	4.5	1.1	1.0	.3				100.0	7.5	6.0
TOTAL NUMBER OF OBSERVATIONS 900															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: APR HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.9	2.1	2.6	1.2	.6							8.3	10.1	10.0
020-040	.9	1.0	.1	.1								2.1	6.3	6.0
050-070	.6	.4	.3									1.3	6.4	7.0
(E) 080-100	.6	.6	.1									1.2	6.4	6.0
110-130	.9	1.4	.8									3.1	6.6	6.5
140-160	2.3	3.7	2.0	.8	.3							9.1	8.1	7.0
(S) 170-190	2.2	2.1	1.0	.8	.2							6.3	7.8	7.0
200-220	4.0	1.2	.1									5.3	3.6	3.0
230-250	3.7	1.7										5.3	3.8	4.0
(W) 260-280	4.9	2.8	.2	.1								8.0	4.2	4.0
290-310	7.9	2.6	2.1	.2	.7	.2						13.7	6.1	4.0
320-340	1.6	5.6	6.9	3.6	2.6	1.4	.7	.3				22.6	13.9	12.0
VARIABLE														
CALM	////////////////////////////////////											13.6	////////	
TOTALS	31.5	25.2	16.2	6.8	4.4	1.6	.7	.3				100.0	7.3	6.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: APR HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.2	3.0	4.2	1.3	.6	.2	.1					10.7	11.1	10.0
020-040	.7	1.8	.4	.1								3.0	6.7	7.0
050-070	.8	.6	.2									1.6	5.1	5.0
(E) 080-100	.7	.8	.3									1.8	6.4	5.5
110-130	.9	.7	.6	.3								2.4	7.5	7.0
140-160	2.6	3.8	2.1	1.3	.2							10.0	8.4	7.5
(S) 170-190	3.4	4.2	2.1	1.2	.2	.1						11.3	8.2	7.0
200-220	2.9	1.0										3.9	3.3	3.0
230-250	4.1	1.1		.1								5.3	3.4	3.0
(W) 260-280	3.7	2.3	.6									6.6	4.8	4.0
290-310	3.7	.9	1.0	.9	.6	.3	.1					7.4	9.1	5.0
320-340	2.8	5.1	6.0	3.4	4.7	1.3	1.2	.6	.1			25.2	14.6	13.0
VARIABLE														
CALM	////////////////////											10.8	////////	
TOTALS	27.5	25.3	17.5	8.6	6.3	1.9	1.4	.6	.1			100.0	8.5	8.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: APR HOURS: 09-11

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		1.9	4.9	6.9	2.6	1.4	.4	.1					18.2	11.5	10.0
020-040		1.6	2.6	1.7									5.8	7.0	6.0
050-070		.8	1.1	.1									2.0	5.1	5.0
(E) 080-100		1.3	1.3	.6	.3								3.6	7.4	7.0
110-130		1.2	3.6	.7	.1	.1							5.7	7.4	8.0
140-160		1.3	5.2	5.0	2.8	.1	.1						14.6	10.3	10.0
(S) 170-190		1.9	3.3	3.1	3.0	2.2	.8						14.3	13.0	13.0
200-220		.8	.6	.6									1.9	5.9	5.0
230-250		.7	.3	.1									1.1	4.8	3.5
(W) 260-280		.2			.1								.3	7.0	4.0
290-310		.6	.4	.1	.7	.9	.3	.1	.3				3.7	16.8	17.0
320-340		2.0	2.6	5.1	5.4	5.9	2.7	1.7	.6	.1			26.0	17.2	17.0
.....															
VARIABLE															
CALM		////////////////////////////////////											2.9	////////	
TOTALS		14.3	25.9	24.2	15.0	10.6	4.3	1.9	.9	.1			100.0	11.9	11.0
TOTAL NUMBER OF OBSERVATIONS 900															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: APR HOURS: 12-14

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		.8	4.6	6.1	2.4	1.8	.2		.3				16.2	12.8	12.0
020-040		1.3	4.6	1.3	.4								7.7	7.4	7.0
050-070		1.3	1.0	.4	.2								3.0	6.3	5.0
(E) 080-100		1.7	1.7	.7	.3								4.3	6.9	7.0
110-130		1.4	4.6	2.8	.6								9.3	8.0	8.0
140-160		.7	3.1	5.9	4.0	1.0	.1						14.8	12.4	13.0
(S) 170-190		1.0	1.6	3.2	2.8	1.6	.6	.4					11.1	14.6	14.0
200-220		.1	.1	.7	.2	.1							1.2	12.3	10.0
230-250		.2	.3	.6	.3	.2							1.7	11.2	10.0
(W) 260-280		.3	.3	.4	.1								1.2	8.7	8.0
290-310		.8	.4	.7	1.0	.9	.2	.2					4.2	14.7	16.0
320-340		.7	2.3	4.2	5.7	6.1	1.9	.9	1.0	.6			23.3	18.7	18.0
VARIABLE															
CALM		////////////////////////////////////										1.9	////////////////////////////////		
TOTALS		10.3	24.6	27.0	18.0	11.7	3.0	1.5	1.3	.6			100.0	12.8	12.0
TOTAL NUMBER OF OBSERVATIONS 900															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: APR HOURS: 15-17

WIND SPEED IN KNOTS														
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.7	4.0	6.6	3.6	1.6	.4	.2					18.0	12.3	12.0
020-040	2.0	4.8	1.9	.3								9.0	7.2	7.0
050-070	1.4	1.8	1.1	.2								4.6	7.1	6.0
(E) 080-100	1.0	2.6	.9	.7	.1							5.2	8.3	7.0
110-130	2.3	3.0	1.6	.8	.1							7.8	7.8	7.0
140-160	.6	2.6	6.7	2.3	.2							12.3	11.6	12.0
(S) 170-190	1.0	1.4	2.2	3.0	1.6	.2	.1					9.6	13.7	15.0
200-220	.3	1.0	.4	.1	.1							2.0	8.8	7.5
230-250	.3	.6	.9	.3	.2							2.3	10.8	10.0
(W) 260-280	.2	.2	.4									.9	8.4	9.0
290-310	.3	.6	1.7	1.3	.8	.2	.3	.1				5.3	15.6	15.0
320-340	.8	2.8	5.0	4.4	3.6	2.7	.8	.4	.3			20.8	17.1	16.0
VARIABLE														
CALM	////////////////////////////////////											2.2	////////////////////////////////	
TOTALS	11.9	25.4	29.4	17.0	8.3	3.5	1.4	.5	.3			100.0	11.9	12.0
TOTAL NUMBER OF OBSERVATIONS 900														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: APR HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.4	3.9	4.3	1.3	.7							11.7	10.0	10.0
020-040	1.9	3.6	1.6	.6								7.6	7.7	7.0
050-070	2.7	3.1	.2									6.0	5.0	5.0
(E) 080-100	1.6	3.4	.8	.3								6.1	7.0	6.0
110-130	1.6	3.8	2.7	.6	.1							8.7	8.3	8.0
140-160	2.7	5.2	3.2	.4		.1						11.7	7.6	7.0
(S) 170-190	2.4	3.2	2.0	.7	.3							8.7	8.1	7.0
200-220	1.4	.7	.2									2.3	4.6	4.0
230-250	1.9	.9	.1									2.9	4.3	4.0
(W) 260-280	1.6	.6	.2									2.3	4.3	3.0
290-310	1.8	2.7	1.0	.6	.1	.3	.2	.1				6.8	9.9	7.0
320-340	1.9	4.6	6.4	2.8	2.2	.9	1.0	.2				20.0	13.5	12.0
VARIABLE														
CALM	////////////////////											5.3	////////	
TOTALS	22.9	35.7	22.7	7.3	3.4	1.3	1.2	.3				100.0	8.5	8.0
TOTAL NUMBER OF OBSERVATIONS 900														



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: APR HOURS: 21-23

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		1.4	3.0	4.0	.7	.3							9.4	9.4	10.0
020-040		1.2	1.4	.3	.1								3.1	6.3	6.0
050-070		.2	1.3										1.6	6.2	7.0
(E) 080-100		.7	1.3	.2									2.2	6.4	7.0
110-130		.9	1.9	1.4									4.2	7.7	8.0
140-160		2.0	4.4	1.7	.7	.1							8.9	7.8	7.0
(S) 170-190		5.4	5.4	1.8	.7	.3							13.7	6.6	5.0
200-220		3.8	1.6	.2									5.6	3.9	4.0
230-250		4.0	.6	.1	.1								4.8	3.5	3.0
(W) 260-280		5.3	1.2	.2		.1	.1						7.0	4.0	3.0
290-310		3.9	2.9	.3	.3	.1	.6						8.1	6.9	5.0
320-340		2.8	6.1	5.4	1.8	3.2	.6	1.0		.1			21.0	12.6	11.0
VARIABLE															
CALM		////////////////////////////////////											10.4	////////////////////////////////	
TOTALS		31.6	31.1	15.6	4.4	4.1	1.3	1.0		.1			100.0	7.1	6.0
TOTAL NUMBER OF OBSERVATIONS 900															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: APR HOURS: ALL

		WIND SPEED IN KNOTS													
DIRECTION		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(DEGREES)													%	WIND	WIND
(N)	350-010	1.5	3.4	4.7	1.7	.9	.2	.1	.0				12.4	11.2	10.0
	020-040	1.3	2.6	1.0	.2								5.0	7.1	7.0
	050-070	1.0	1.3	.3	.1								2.6	6.0	6.0
(E)	080-100	.9	1.6	.5	.2	.0							3.2	7.2	7.0
	110-130	1.2	2.5	1.3	.3	.0							5.4	7.7	8.0
	140-160	1.8	4.1	3.6	1.7	.3	.0						11.5	9.6	9.0
(S)	170-190	2.6	3.2	2.1	1.6	.8	.2	.1					10.7	10.1	8.0
	200-220	2.1	1.1	.3	.0	.0							3.5	4.7	4.0
	230-250	2.5	.9	.2	.1	.1							3.7	4.7	4.0
(W)	260-280	2.7	1.4	.3	.0	.0	.0						4.5	4.6	4.0
	290-310	3.1	1.6	1.0	.7	.6	.3	.1	.1				7.3	9.2	6.0
	320-340	2.0	4.3	5.7	3.9	3.9	1.6	1.0	.4	.2			23.0	15.2	14.0
VARIABLE															
CALM		////////////////////////////////////											7.2	////////////////////////////////	
TOTALS		22.7	28.0	21.0	10.5	6.6	2.3	1.3	.5	.2			100.0	9.4	8.0

TOTAL NUMBER OF OBSERVATIONS 7200

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: APR HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
AND/OR  
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.3	3.7	12.6	4.3	2.4							24.3	12.5	12.0
020-040	1.6	4.9	1.9	.4								8.7	8.1	8.0
050-070	1.7	3.7	1.1	.4								7.0	7.3	7.0
(E) 080-100	.9	5.1	1.0	.3								7.3	8.0	8.0
110-130	1.3	3.3	1.4	.4								6.4	7.9	8.0
140-160	.7	3.1	2.0	1.6	.6							8.0	10.3	10.0
(S) 170-190	.9	.9	.6	.3	.6	.1						3.3	10.9	9.0
200-220	.4	.1										.6	4.0	4.0
230-250														
(W) 260-280	.4											.4	2.0	2.0
290-310	.7	.6	.6	.1	.3	.4		.1				2.9	13.3	12.0
320-340	.6	2.6	8.6	6.0	4.4	3.6	1.7	.6	.7			28.7	18.3	16.0
VARIABLE														
CALM	////////////////////											2.6	////	////
TOTALS	10.5	28.0	29.8	13.9	8.3	4.1	1.7	.7	.7			100.0	12.1	11.0

TOTAL NUMBER OF OBSERVATIONS 701

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: MAY HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.5	2.2	2.0	1.5	.4							7.6	10.4	10.0
020-040	.5	.9	.1	.1								1.6	6.1	6.0
050-070	.6	1.1	.1									1.8	5.9	6.0
(E) 080-100	.3	.2	.5	.3								1.4	9.8	10.0
110-130	.6	1.6	.5	.5								3.3	8.5	7.0
140-160	2.8	6.0	2.7	.4	.1							12.0	7.6	7.0
(S) 170-190	4.3	4.8	3.4	1.0								13.5	7.5	7.0
200-220	3.3	1.9	.2									5.5	4.4	4.0
230-250	4.6	1.0	.1									5.7	3.4	3.0
(W) 260-280	6.5	2.7		.1								9.2	3.7	3.0
290-310	5.2	3.0	.9	.5	.4							10.0	6.5	4.0
320-340	2.0	5.4	4.2	3.2	1.2	.4						16.5	11.3	10.0
VARIABLE														
CALM	////////////////////											11.7	////////	
TOTALS	32.2	30.8	14.2	7.6	2.1	.4						100.0	6.6	6.0
TOTAL NUMBER OF OBSERVATIONS 930														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAY HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.4	3.7	2.3	.9	.4							8.6	9.2	8.0
020-040	.5	.8	.2									1.5	5.8	6.0
050-070	.9	.5	.2									1.6	4.8	4.0
(E) 080-100	1.3	.3	.5									2.2	5.6	3.5
110-130	.4	1.0	.9	.2								2.5	8.5	8.0
140-160	1.9	3.9	3.5	1.3								10.6	9.0	9.0
(S) 170-190	2.8	3.5	2.8	1.5								10.6	8.3	8.0
200-220	2.7	1.8										4.5	4.0	4.0
230-250	4.5	1.1	.1									5.7	3.4	3.0
(W) 260-280	7.0	3.1	.4									10.5	3.8	4.0
290-310	5.3	3.0	1.0	.1	.4		.1					9.9	6.2	4.0
320-340	2.8	6.1	4.5	2.5	2.6	.6	.1					19.2	11.6	11.0
VARIABLE														
CALM	////////////////////////////////////											12.5	////////	
TOTALS	31.5	28.8	16.4	6.5	3.4	.6	.2					100.0	6.7	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAY HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.2	4.4	4.0	1.0	.3							10.9	9.6	9.0
020-040	1.1	.6	.3	.1								2.2	5.9	4.5
050-070	.9	.3	.4									1.6	5.9	4.0
(E) 080-100	1.3	.9	.1									2.3	4.9	4.0
110-130	.9	1.6	.8	.2								3.4	7.2	7.0
140-160	2.2	4.8	4.9	2.3	.1							14.3	9.6	10.0
(S) 170-190	4.7	2.8	4.1	2.0	.3	.2	.1					14.3	9.0	8.0
200-220	2.7	1.0	.2									3.9	3.9	3.0
230-250	3.0	.8	.3									4.1	3.6	3.0
(W) 260-280	3.7	1.3	.3	.1	.1							5.5	4.7	3.0
290-310	2.2	1.8	1.0	.9	.8		.1					6.7	9.3	7.5
320-340	1.3	4.5	6.3	4.3	4.2	1.0						21.6	13.8	14.0
VARIABLE														
CALM	////////////////////											9.4	////////	
TOTALS	25.2	24.8	22.7	10.9	5.8	1.2	.2					100.0	8.4	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAY HOURS: 09-11

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		1.8	5.9	7.8	1.6	.9	.2	.1					18.4	10.6	10.0
020-040		2.2	2.8	.8									5.7	5.8	5.0
050-070		1.5	1.0	.2	.1	.1							2.9	5.4	4.0
(E) 080-100		2.0	1.4	.4									3.9	5.4	4.0
110-130		2.5	3.5	1.6	.2								7.8	6.9	7.0
140-160		1.4	5.7		3.5	1.0	.2						18.9	11.3	11.0
(S) 170-190		1.1	2.0	3.4	3.2	1.4	.3						11.5	13.1	13.0
200-220		1.1	.1	.3		.3							1.8	7.8	4.0
230-250		.3	.1	.1									.5	5.6	4.0
(W) 260-280		.5	.4	.2		.2	.1						1.5	9.6	6.5
290-310		.3	.5	1.2	.6	.2	.1	.1					3.1	12.8	12.0
320-340		1.1	1.9	5.8	5.6	4.6	1.9	.3					21.3	16.0	16.0
VARIABLE															
CALM		////////////////////////////////////											2.6	////////////////////////////////	
TOTALS		15.8	25.3	28.9	14.8	8.7	2.8	.5					100.0	11.0	11.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAY HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.7	4.0	5.6	3.7	1.0	.3	.1					16.3	11.9	12.0
020-040	2.3	4.2	2.0	.3								8.8	7.4	7.0
050-070	1.8	1.3	.3	.5								4.0	6.7	5.0
(E) 080-100	1.7	3.0	.1	.3								5.2	6.2	6.0
110-130	.8	3.5	2.2	.5								7.0	8.7	8.0
140-160	1.4	3.2	7.5	4.9	1.5							18.6	12.6	13.0
(S) 170-190	1.2	1.8	2.2	3.1	1.4	.1						9.8	13.1	14.0
200-220	.6	.5	.5	.2								1.9	8.1	8.0
230-250	.4	.8	.9									2.0	8.5	8.0
(W) 260-280	.1	.3	.2			.1						.8	10.6	8.0
290-310	.6	.5	1.2	.8	.4	.3	.1					4.0	13.6	13.0
320-340	.9	3.1	4.4	4.9	4.5	1.4	.6		.1			20.0	16.0	16.0
VARIABLE														
CALM	////////////////////											1.6	////////	
TOTALS	13.5	26.2	27.1	19.2	8.8	2.2	.8		.1			100.0	11.6	12.0

TOTAL NUMBER OF OBSERVATIONS 930



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAY HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.6	4.8	5.2	3.3	.9	.3	.2					16.3	11.5	10.0
020-040	2.0	4.6	2.3	.6	.1							9.7	8.0	7.0
050-070	2.2	3.0	1.0	.1	.1							6.3	6.5	5.0
(E) 080-100	1.2	1.9	1.5	.2								4.8	7.8	7.0
110-130	.6	3.8	2.8	1.2	.1							8.5	9.4	9.0
140-160	1.2	3.0	5.7	4.3	1.1	.1						15.4	12.5	13.0
(S) 170-190	1.0	1.8	2.8	2.3	1.1		.1					9.0	12.7	13.5
200-220	.8	1.3	.5	.2								2.8	7.4	7.5
230-250	1.2	1.2	.3	.1								2.8	5.8	6.0
(W) 260-280	.5	.5	.6	.2								1.9	8.4	8.0
290-310	.5	.4	1.5	.5	.8							3.8	12.7	12.0
320-340	.4	2.6	4.9	4.8	2.8	1.5	.1					17.2	15.3	15.0
VARIABLE														
CALM	////////////////////////////////////											1.4	//////////	
TOTALS	13.2	28.9	29.1	17.8	7.0	1.9	.4					100.0	11.0	10.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAY HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	2.4	4.6	4.3	2.2	.2	.3						14.0	9.9	9.5
020-040	2.7	3.8	.6	.2								7.3	6.2	6.0
050-070	2.2	2.4	.4									4.9	5.3	5.0
(E) 080-100	2.2	3.8	1.4	.1								7.4	6.8	6.0
110-130	1.7	4.9	3.4	.6	.2							11.0	8.8	8.0
140-160	3.1	6.2	3.8	.9	.3							14.3	8.1	8.0
(S) 170-190	1.4	3.1	1.7	.5								6.8	8.2	8.0
200-220	1.2	1.5	.1	.2								3.0	6.0	5.0
230-250	1.4	.6	.2									2.3	4.8	4.0
(W) 260-280	1.0	.5	.3	.3	.1							2.3	7.9	7.0
290-310	1.2	1.7	1.2	.9	.2	.1						5.3	9.4	8.0
320-340	1.4	3.9	6.2	3.3	1.1	.4						16.3	12.1	12.0
VARIABLE														
CALM	////////////////////////////////////											5.2	////////	
TOTALS	21.9	37.0	23.6	9.2	2.1	.8						100.0	8.2	8.0
TOTAL NUMBER OF OBSERVATIONS 930														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAY HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.0	1.9	2.9	1.2	.2	.1						7.3	10.5	10.0
020-040	1.0	1.3	.2	.1								2.6	5.9	5.0
050-070	1.0	.6	.3									1.9	5.5	4.5
(E) 080-100	.9	.6	.4	.1								2.0	6.6	5.0
110-130	1.7	1.5	1.3	.5	.1							5.2	8.1	7.0
140-160	2.5	4.6	3.0	.8								10.9	7.8	7.0
(S) 170-190	5.8	7.0	1.3	.2								14.3	6.0	5.0
200-220	1.9	2.4		.2								4.5	5.3	5.0
230-250	3.1	1.4	.2									4.7	3.8	3.0
(W) 260-280	6.6	1.6	.1	.1	.1							8.5	3.8	3.0
290-310	4.0	2.9	1.4	.5	.4							9.2	7.1	5.0
320-340	1.5	7.7	2.7	4.1	1.7	.1	.1					18.0	11.2	9.0
VARIABLE														
CALM	////////////////////////////////////											10.9	////////	
TOTALS	31.0	33.5	13.8	7.8	2.5	.2	.1					100.0	6.7	6.0
TOTAL NUMBER OF OBSERVATIONS 930														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAY HOURS: ALL

		WIND SPEED IN KNOTS													
DIRECTION		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(DEGREES)												%	WIND	WIND	
(N) 350-010		1.6	3.9	4.3	1.9	.5	.2	.1					12.4	10.6	10.0
020-040		1.5	2.4	.8	.2	.0							4.9	6.8	6.0
050-070		1.4	1.3	.4	.1	.0							3.1	5.9	5.0
(E) 080-100		1.4	1.5	.6	.1								3.6	6.5	6.0
110-130		1.2	2.7	1.7	.5	.1							6.1	8.3	8.0
140-160		2.1	4.7	4.8	2.3	.5	.0						14.4	10.1	10.0
(S) 170-190		2.8	3.4	2.7	1.7	.5	.1	.0					11.2	9.5	8.0
200-220		1.8	1.3	.2	.1	.0							3.5	5.4	4.0
230-250		2.3	.9	.3	.0								3.5	4.3	3.0
(W) 260-280		3.2	1.3	.3	.1	.1	.0						5.0	4.7	4.0
290-310		2.4	1.7	1.2	.6	.5	.1	.1					6.5	8.6	6.0
320-340		1.4	4.4	4.9	4.1	2.8	.9	.2		.0			18.8	13.5	13.0
VARIABLE															
CALM		////////////////////////////////////										6.9	////////////////////////////////		
TOTALS		23.1	29.5	22.2	11.7	5.0	1.3	.4					100.0	8.8	8.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAY HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).

AND/OR

VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

		WIND SPEED IN KNOTS										TOTAL	MEAN	MEDIAN
DIRECTION	(DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65		
(N) 350-010		1.1	4.6	8.4	5.1	.9	.8	.5					21.3	13.0
020-040		2.3	4.9	3.2	.6								11.0	7.8
050-070		2.1	2.3	2.3	.8	.2							7.7	8.4
(E) 080-100		1.7	3.2	2.3	1.1								8.3	9.0
110-130		1.5	4.6	2.6	1.4	.5							10.6	9.4
140-160		2.0	2.1	3.1	1.1	.2							8.4	9.3
(S) 170-190		2.5	1.1	.8		.2							4.4	5.8
200-220		.3	.2	.2									.6	5.5
230-250														
(W) 260-280		.3		.2									.5	5.7
290-310			.2	.5	.2	.2	.3						1.2	16.5
320-340		.3	1.1	6.1	8.3	5.7	1.8	.2		.2			23.6	17.3
VARIABLE														
CALM		////////////////////										2.5	////////////////	
TOTALS		14.1	24.3	29.7	18.6	7.9	2.9	.7		.2			100.0	11.4

TOTAL NUMBER OF OBSERVATIONS 653

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUN HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.3	2.1	1.0	.3								4.8	7.6	8.0
020-040	.8	1.0	.2									2.0	5.4	5.0
050-070	.8	.3										1.1	4.0	3.0
(E) 080-100	.8	.9	.1									1.8	5.3	5.5
110-130	.9	1.4	.3									2.7	6.1	6.0
140-160	3.9	8.4	1.6	.2								14.1	6.5	6.0
(S) 170-190	4.3	7.3	1.3									13.0	5.9	6.0
200-220	3.3	.6	.2									4.1	3.4	3.0
230-250	5.0	.2										5.2	2.4	2.0
(W) 260-280	7.6	1.3		.1								9.0	3.3	3.0
290-310	5.9	5.1	1.0	.3	.1							12.4	5.5	5.0
320-340	3.0	6.2	4.1	2.4	1.1							16.9	9.8	8.0
VARIABLE														
CALM	////////////////////////////////////											12.9	////////	
TOTALS	37.6	34.8	9.8	3.3	1.2							100.0	5.4	6.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUN HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	.8	3.4	1.6	.3	.2							6.3	8.9	8.0
020-040	.7	.3	.2	.1								1.3	6.3	4.5
050-070	.6		.2									.8	5.1	4.0
(E) 080-100	.8	.4	.2									1.4	5.6	4.0
110-130	1.1	1.1	.8									3.0	6.5	6.0
140-160	2.2	5.0	3.3	.1								10.7	7.5	7.0
(S) 170-190	4.4	5.0	1.7		.1							11.2	6.0	6.0
200-220	4.0	.8	.2									5.0	3.5	3.0
230-250	4.6	.1										4.7	2.5	2.0
(W) 260-280	7.8	1.4	.3	.3								9.9	3.7	3.0
290-310	6.7	4.8	1.4			.1						13.0	5.5	4.0
320-340	4.3	6.6	5.3	2.2	1.0	.6						20.0	9.9	8.0
VARIABLE														
CALM	////////////////////////////////////											12.7	////////	
TOTALS	38.0	28.9	15.2	3.0	1.3	.7						100.0	5.8	5.0
TOTAL NUMBER OF OBSERVATIONS 900														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726025 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JUN HOURS: 06-08

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		2.0	3.3	2.8	.6	.1							9.0	8.4	8.0
020-040		.9	1.0	.7									2.6	6.4	6.0
050-070		.3	.6	.1									1.0	5.7	5.0
(E) 080-100		1.1	.1	.1									1.3	3.3	2.0
110-130		1.7	1.2	.9									3.8	6.1	5.0
140-160		2.2	4.3	4.3	.8	.2	.2						12.1	9.0	9.0
(S) 170-190		4.0	6.8	3.1	.7	.1							14.7	7.3	7.0
200-220		3.9	1.1	.1		.2							5.3	4.1	3.0
230-250		3.2	1.0	.1									4.3	3.3	3.0
(W) 260-280		6.7	.7	.1	.1								7.6	3.0	2.0
290-310		2.8	2.2	1.8	.3	.7							7.8	8.3	6.5
320-340		3.2	5.4	6.1	4.9	2.2	.7						22.6	11.9	11.0
VARIABLE															
CALM		////////////////////////////////////											8.0	////////////////////////////////	
TOTALS		32.0	27.7	20.2	7.6	3.5	.9						100.0	7.3	7.0
TOTAL NUMBER OF OBSERVATIONS 900															



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUN HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	MEDIAN WIND		
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64				GE 65	
(N) 350-010	2.2	6.8	6.1	2.3								17.4	9.4	9.0	
020-040	3.4	2.8	1.1									7.3	5.5	5.0	
050-070	1.4	1.9	.1									3.4	5.1	5.0	
(E) 080-100	1.6	1.4	.2									3.2	5.1	5.0	
110-130	2.3	2.4	.7									5.4	5.5	5.0	
140-160	2.3	6.1	5.8	2.8	.6	.2						17.8	10.0	10.0	
(S) 170-190	1.8	3.9	4.6	3.4	.4							14.1	10.9	11.0	
200-220	1.0	.4										1.4	4.0	4.0	
230-250	.8	.6	.1	.1								1.6	5.4	4.5	
(W) 260-280	.6	.3	.2									1.1	5.5	5.0	
290-310	.8	.2	1.4	.7	.7	.2						4.0	13.0	12.0	
320-340	1.4	4.3	4.4	7.0	2.9	.8	.1					21.0	13.8	15.0	
VARIABLE															
CALM	////////////////////////////////////										2.1	////////////////////////////////			
TOTALS	19.6	31.1	24.7	16.3	4.6	1.2	.1					100.0	9.6	9.0	
TOTAL NUMBER OF OBSERVATIONS 900															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JUN HOURS: 12-14

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		1.7	5.3	6.1	3.2	.4	.2						17.0	10.7	10.0
020-040		2.7	4.0	.9	.1								7.7	6.0	6.0
050-070		2.2	2.4	.7									5.3	5.6	5.0
(E) 080-100		2.3	1.9	.4	.2								4.9	5.8	5.0
110-130		2.6	3.6	1.9	.1								8.1	6.8	6.0
140-160		.2	5.2	8.9	3.0	.7	.1						18.1	11.5	11.0
(S) 170-190		.8	1.3	4.2	4.3	.4	.3						11.4	13.3	14.0
200-220		.8	.4	.1									1.3	4.8	4.0
230-250		.4	.6	.1		.1							1.2	6.3	6.0
(W) 260-280		.3	.3	.1	.2								1.0	8.0	6.0
290-310		.9	.6	.8	.1	.4	.1						2.9	10.8	9.0
320-340		1.8	2.7	6.6	4.9	2.8	.3						19.0	13.5	14.0
VARIABLE															
CALM		////////////////////////////////////											2.0	////////////////////////////////	
TOTALS		16.7	28.3	30.8	16.1	4.8	1.0						100.0	10.1	10.0
TOTAL NUMBER OF OBSERVATIONS 900															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUN HOURS: 15-17

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		2.1	6.0	6.6	2.1	.3							17.1	9.7	10.0
020-040		1.7	4.0	1.4									7.1	6.9	7.0
050-070		2.0	3.2	.3									5.6	5.6	6.0
(E) 080-100		1.9	3.4	.7	.2								6.2	6.7	6.0
110-130		2.4	3.8	4.2	.4								10.9	8.4	8.5
140-160		1.6	5.3	7.3	2.6	.4	.1						17.3	10.7	10.0
(S) 170-190		1.1	1.4	4.2	2.0	.3							9.1	11.6	12.0
200-220		.8	.4	.2									1.4	4.8	3.0
230-250		1.3	.7	.6									2.6	5.4	4.0
(W) 260-280		1.0	1.0	.2		.1							2.3	6.1	5.0
290-310		.8	1.6	1.0	1.2	.2							4.8	10.1	10.0
320-340		1.4	2.2	5.3	4.1	1.0	.6	.3					15.0	13.2	14.0
VARIABLE															
CALM		////////////////////////////////////											.6	////////////////////////////////	
TOTALS		18.1	33.0	32.0	12.6	2.3	.7	.3					100.0	9.5	9.0
TOTAL NUMBER OF OBSERVATIONS 900															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUN HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64			
(N) 350-010	2.1	5.6	4.6	.4							12.7	8.3	8.0
020-040	1.9	3.2	1.6								6.7	6.6	6.0
050-070	2.3	3.6	.6								6.4	5.6	5.0
(E) 080-100	2.9	3.6	1.0	.1							7.6	6.1	6.0
110-130	1.8	5.3	3.9	.2							11.2	8.1	8.0
140-160	2.9	6.7	4.2	.6	.4						14.8	8.3	8.0
(S) 170-190	3.0	4.4	1.6	.2	.1						9.3	6.7	6.0
200-220	2.7	.8		.1							3.6	3.6	2.5
230-250	.9	.7		.2							1.8	5.7	4.5
(W) 260-280	1.6	.2			.1						1.9	4.5	4.0
290-310	1.8	2.4	1.1	.1	.6						6.0	7.8	6.5
320-340	2.0	4.6	4.1	2.2	1.1	.1	.3				14.4	11.1	10.0
VARIABLE													
CALM	////////////////////////////////////										3.7	////////////////////////////////	
TOTALS	25.9	41.1	22.7	4.1	2.3	.1	.3				100.0	7.5	7.0
TOTAL NUMBER OF OBSERVATIONS 900													

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 ~ FEB 91  
MONTH: JUN HOURS: 21-23

WIND SPEED IN KNOTS														
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.2	3.0	1.1	.6	.1							7.0	7.2	6.0
020-040	1.1	1.2	.3	.2								2.9	6.4	5.0
050-070	1.4	1.0										2.4	4.3	4.0
(E) 080-100	1.8	1.2	.9	.1								4.0	5.8	5.0
110-130	1.2	3.0	1.2	.3								5.8	7.8	8.0
140-160	2.1	7.2	2.1	.4								11.9	7.0	6.0
(S) 170-190	3.3	7.6	1.0	.2								12.1	6.2	6.0
200-220	4.0	.9	.3		.1							5.3	4.0	3.0
230-250	3.9	.4	.2		.1							4.7	3.5	2.0
(W) 260-280	5.8	1.7	.2									7.7	3.5	3.0
290-310	5.0	4.0	.6	.3	.2							10.1	5.8	5.0
320-340	3.4	7.1	3.4	1.3	.8	.1						16.2	8.7	7.0
VARIABLE														
CALM	////////////////////////////////////											9.9	////////////////////////////////	
TOTALS	35.2	38.3	11.3	3.4	1.3	.1						100.0	5.7	5.0
TOTAL NUMBER OF OBSERVATIONS 900														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JUN HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.8	4.4	3.7	1.3	.2	.0						11.4	9.2	9.0
020-040	1.6	2.2	.8	.1								4.7	6.2	6.0
050-070	1.4	1.6	.3									3.3	5.3	5.0
(E) 080-100	1.6	1.6	.5	.1								3.8	5.8	5.0
110-130	1.8	2.7	1.7	.1								6.4	7.3	7.0
140-160	2.2	6.0	4.7	1.3	.3	.1						14.6	9.1	8.0
(S) 170-190	2.8	4.7	2.7	1.4	.2	.0						11.9	8.4	8.0
200-220	2.6	.7	.2	.0	.0							3.4	3.9	3.0
230-250	2.5	.5	.1	.0	.0							3.2	3.6	3.0
(W) 260-280	3.9	.9	.2	.1	.0							5.1	3.8	3.0
290-310	3.1	2.6	1.1	.4	.4	.1						7.6	7.2	6.0
320-340	2.6	4.9	4.9	3.6	1.6	.4	.1					18.1	11.6	11.0
VARIABLE														
CALM	////////////////////											6.5	////////////////	
TOTALS	27.9	32.8	20.9	8.4	2.7	.6	.1					100.0	7.6	7.0
TOTAL NUMBER OF OBSERVATIONS 7200														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUN HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).

AND/OR

VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	2.8	5.5	5.1	2.0								15.4	9.0	9.0
020-040	2.0	5.9	4.3									12.3	7.9	8.0
050-070	3.6	3.2	.8									7.5	5.6	5.0
(E) 080-100	2.0	3.2	1.6									6.7	6.8	8.0
110-130	1.6	6.7	5.1									13.4	8.0	8.5
140-160	.8	5.5	10.3	2.4								19.0	10.4	10.0
(S) 170-190	.8	1.6	1.6									4.0	8.1	7.5
200-220	1.2	.4										1.6	3.0	2.5
230-250	.8											.8	1.5	1.5
(W) 260-280	.4	.4	.4									1.2	7.7	9.0
290-310	.8	1.2		.4	.4							2.8	9.4	8.0
320-340	.4	3.6	7.1	2.0	.8							13.8	12.3	13.0
VARIABLE														
CALM	////////////////////											1.6	////////	
TOTALS	17.2	37.2	36.3	6.8	1.2							100.0	8.7	9.0

TOTAL NUMBER OF OBSERVATIONS 253

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUL HOURS: 00-02

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		2.3	2.6	1.5	.8	.2							7.3	8.1	7.0
020-040		1.0	.5		.1								1.6	5.3	4.0
050-070		.8	.5	.1									1.4	5.0	4.0
(E) 080-100		1.0	.4	.1									1.5	4.3	4.0
110-130		1.3	1.1	.5									2.9	5.7	5.0
140-160		4.4	9.2	1.7									15.4	6.4	6.0
(S) 170-190		5.6	8.3	3.1	.4								17.4	6.6	6.0
200-220		4.4	2.7										7.1	4.2	4.0
230-250		4.0	1.1			.1							5.2	3.5	2.5
(W) 260-280		5.9	.9	.1	.1								7.0	3.2	2.0
290-310		5.8	1.8	.3									8.0	3.8	3.0
320-340		2.6	7.7	2.5	1.3	.5	.1	.1	.1				14.9	9.1	8.0
VARIABLE															
CALM		////////////////////////////////////											10.3	////////////////////////////////	
TOTALS		39.1	36.8	9.9	2.7	.8	.1	.1	.1				100.0	5.5	5.0
TOTAL NUMBER OF OBSERVATIONS 930															



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUL HOURS: 03-05

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		1.4	2.9	2.2	.5	.1							7.1	8.4	8.0
020-040		.6	.8	.2									1.6	6.0	6.0
050-070		.9	.5	.1									1.5	4.1	3.5
(E) 080-100		.8	.5	.1									1.4	4.8	4.0
110-130		2.0	1.3	.1									3.4	4.5	4.0
140-160		4.0	4.8	2.2	.4								11.4	6.5	6.0
(S) 170-190		4.5	6.3	3.7	.4								14.9	7.0	6.0
200-220		3.7	2.3		.1								6.0	4.2	4.0
230-250		4.5	.8										5.3	3.1	3.0
(W) 260-280		6.7	1.6	.1									8.4	3.1	2.0
290-310		8.1	1.9	.1		.2							10.3	3.7	3.0
320-340		4.5	5.9	3.9	2.0	1.0	.1						17.4	8.9	8.0
VARIABLE															
CALM		////////////////////////////////////											11.2	////////////////////////////////	
TOTALS		41.7	29.6	12.7	3.4	1.3	.1						100.0	5.4	5.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JUL HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	2.2	4.8	3.5	.8	.1							11.4	8.2	8.0
020-040	1.5	1.2										2.7	4.1	4.0
050-070	.9	.4										1.3	3.5	3.5
(E) 080-100	1.0	1.3	.1									2.4	5.1	5.5
110-130	.9	1.3	.4									2.6	6.3	6.0
140-160	3.7	5.1	2.9	1.0								12.6	7.4	7.0
(S) 170-190	4.6	7.3	4.1	1.5	.5							18.1	8.2	8.0
200-220	3.7	.9	.1									4.6	3.7	4.0
230-250	4.1	.8										4.8	3.1	3.0
(W) 260-280	4.4	.6										5.1	3.0	2.0
290-310	2.8	1.6	.3	.2	.1							5.1	5.1	4.0
320-340	3.0	8.2	5.4	2.5	1.4							20.4	9.8	9.0
VARIABLE														
CALM	////////////////////////////////////											9.0	////////////////////////////////	
TOTALS	32.8	33.5	16.8	6.0	2.1							100.0	6.5	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUL HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	3.5	7.0	5.9	1.7	.4							18.6	9.1	8.0
020-040	3.8	3.2	.2									7.2	4.7	4.0
050-070	1.5	1.2	.2	.2								3.1	5.5	5.0
(E) 080-100	2.8	1.9	.2									4.9	4.5	4.0
110-130	1.7	3.7	1.1									6.5	6.5	6.0
140-160	3.3	8.0	6.9	1.6	.1							19.9	8.8	8.0
(S) 170-190	2.0	4.6	5.2	3.4	1.0							16.2	10.8	11.0
200-220	1.1	.4	.1	.1								1.7	4.7	4.0
230-250	.6											.6	2.3	2.5
(W) 260-280	.4	.3										.8	4.1	4.0
290-310	.5	.5	.3	.1								1.5	7.9	6.5
320-340	2.5	4.3	4.3	3.7	1.0	.2	.1					16.0	11.2	10.0
VARIABLE														
CALM	////////////////////////////////////											2.9	////////////////////////////////	
TOTALS	23.7	35.1	24.4	10.8	2.5	.2	.1					100.0	8.4	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JUL HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	2.2	6.6	4.5	1.8	.3	.1						15.5	9.3	8.0
020-040	2.6	3.5	.8									6.9	5.9	5.5
050-070	2.9	3.1	.5									6.6	5.2	5.0
(E) 080-100	2.5	2.7	.4	.1								5.7	5.6	5.0
110-130	2.8	4.7	2.4	.3								10.2	7.2	7.0
140-160	3.0	5.3	9.8	3.1	.1							21.3	10.2	10.5
(S) 170-190	.5	3.5	4.3	4.2	.5							13.1	12.3	12.0
200-220	1.3	.5										1.8	4.1	4.0
230-250	.4	.4	.1									1.0	5.3	5.0
(W) 260-280	.3	.3										.6	5.0	4.5
290-310	.5	.2	.4									1.2	6.6	7.0
320-340	1.6	3.1	6.6	2.0	.5	.3						14.2	11.1	11.0
VARIABLE														
CALM	////////////////////////////////////											1.9	////////////////////////////////	
TOTALS	20.6	33.9	29.8	11.5	1.4	.4						100.0	8.8	8.0
TOTAL NUMBER OF OBSERVATIONS 930														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUL HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	2.5	5.1	4.7	.8	.1	.1						13.2	8.7	8.0
020-040	1.8	2.3	1.1	.1								5.3	6.3	6.0
050-070	2.5	2.0	.8									5.3	5.7	5.0
(E) 080-100	2.7	4.0	.9	.3								7.8	6.5	6.0
110-130	1.9	4.6	3.9	.6								11.1	8.3	8.0
140-160	2.6	8.6	7.3	2.5	.1							11.1	9.3	9.0
(S) 170-190	1.2	3.9	4.3	1.6	.1							11.1	10.0	10.0
200-220	1.0	1.3	.2	.2	.1							2.8	7.0	6.0
230-250	.6	1.3	.5									2.5	6.7	6.0
(W) 260-280	1.1	1.0	.1	.1								2.3	5.4	5.0
290-310	.6	1.1	.9		.1							2.7	8.2	8.0
320-340	1.1	5.6	4.2	1.7	.1	.3						13.0	10.0	9.0
VARIABLE														
CALM	////////////////////////////////////											1.9	////////////////////////////////	
TOTALS	19.6	40.8	28.9	7.9	.6	.4						100.0	8.3	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JUL HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	2.2	5.1	2.7	.2								10.1	7.6	7.0
020-040	2.2	4.2	1.0	.3	.1							7.7	6.8	6.0
050-070	2.2	3.1	1.2									6.5	6.1	6.0
(E) 080-100	2.6	4.5	2.2									9.2	6.5	6.5
110-130	1.0	4.8	4.1	.2								10.1	8.6	9.0
140-160	3.4	10.1	4.0	.8	.2							18.5	7.8	7.0
(S) 170-190	3.5	3.7	1.8	.3		.1						9.5	6.7	6.0
200-220	1.0	.5	.3	.1								1.9	5.6	4.5
230-250	1.8	1.1	.3	.1	.1							3.4	5.3	4.0
(W) 260-280	1.2	1.1	.2	.2		.1						2.8	6.5	5.0
290-310	1.7	1.1	.3	.1		.1						3.3	6.0	4.0
320-340	2.0	3.9	3.5	1.1	.5	.2						11.3	9.5	9.0
VARIABLE														
CALM	////////////////////////////////////											5.6	////////	
TOTALS	24.8	43.2	21.6	3.4	.9	.5						100.0	7.0	7.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUL HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	2.3	1.6	1.8	.5								6.2	7.8	8.0
020-040	1.6	1.7	.2									3.5	5.2	5.0
050-070	1.3	1.6	.4									3.3	5.6	6.0
(E) 080-100	2.4	2.2	.3									4.8	5.1	5.0
110-130	1.8	2.9	1.4	.1								6.2	6.7	6.0
140-160	3.2	7.5	1.7	.2								12.7	6.7	6.5
(S) 170-190	5.6	9.0	1.7	.1								16.5	5.9	5.0
200-220	4.0	2.2	.4	.1								6.7	4.6	4.0
230-250	3.7	1.0	.3									4.9	3.6	3.0
(W) 260-280	5.3	1.0	.1									6.3	3.0	2.0
290-310	4.1	2.4	.6	.1								7.2	5.1	4.0
320-340	2.5	5.4	2.8	.1	.6		.1					11.5	8.6	8.0
VARIABLE														
CALM	////////////////////////////////////											10.0	////////	
TOTALS	37.8	38.5	11.7	1.2	.6		.1					100.0	5.4	5.0
TOTAL NUMBER OF OBSERVATIONS 930														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUL HOURS: ALL

		WIND SPEED IN KNOTS													
DIRECTION		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(DEGREES)													%	WIND	WIND
(N) 350-010		2.3	4.4	3.4	.9	.2	.0						11.2	8.6	8.0
020-040		1.9	2.2	.4	.1	.0							4.6	5.7	5.0
050-070		1.6	1.6	.4	.0								3.6	5.4	5.0
(E) 080-100		1.9	2.2	.5	.1								4.7	5.7	6.0
110-130		1.7	3.1	1.7	.2								6.6	7.2	7.0
140-160		3.5	7.3	4.6	1.2	.1							16.6	8.2	8.0
(S) 170-190		3.5	5.8	3.5	1.5	.3	.0						14.6	8.4	8.0
200-220		2.5	1.3	.1	.1	.0							4.1	4.6	4.0
230-250		2.5	.8	.2	.0	.0							3.5	3.9	3.0
(W) 260-280		3.2	.8	.1	.1		.0						4.2	3.6	3.0
290-310		3.0	1.3	.4	.1	.1	.0						4.9	4.9	4.0
320-340		2.5	5.5	4.1	1.8	.7	.2	.0	.0				14.9	9.8	9.0
VARIABLE															
CALM		////////////////////////////////////											6.6	////////	
TOTALS		30.1	36.3	19.4	6.1	1.4	.2						100.0	6.9	6.0

TOTAL NUMBER OF OBSERVATIONS 7440



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JUL HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
AND/OR  
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	.6	1.1	2.8	.6								5.1	10.1	10.0
020-040	3.4	3.4										6.7	4.1	4.5
050-070	5.6	7.3	2.8									15.7	6.4	6.0
(E) 080-100	3.4	9.6	2.2	1.1								16.3	7.1	7.0
110-130	1.7	9.0	5.1	1.7								17.4	8.6	8.0
140-160	3.9	7.3	7.9	.6								19.7	8.0	8.0
(S) 170-190	1.7	.6	.6	.6								3.4	6.3	4.5
200-220	.6	.6										1.1	5.0	5.0
230-250														
(W) 260-280	1.1											1.1	3.0	3.0
290-310	.6											.6	2.0	2.0
320-340		2.2	1.7			1.1						5.1	12.7	10.0
VARIABLE														
CALM	////////////////////											7.9	////////	
TOTALS	22.6	41.1	23.1	4.6		1.1						100.0	7.0	7.0

TOTAL NUMBER OF OBSERVATIONS 178

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: AUG HOURS: 00-02

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		1.5	2.5	1.4	.6	.1							6.1	8.3	8.0
020-040		.6	.8										1.4	4.8	5.0
050-070		.4	.4		.1								1.0	5.3	5.0
(E) 080-100		1.0	.6	.2	.2								2.0	5.9	5.0
110-130		1.1	.9	.2									2.2	5.3	4.5
140-160		3.7	7.4	2.3	.4								13.8	6.9	7.0
(S) 170-190		5.6	8.0	2.9	.6								17.1	6.6	6.0
200-220		3.7	2.0	.2	.3								6.2	4.8	4.0
230-250		5.3	.6	.1									6.0	3.0	3.0
(W) 260-280		7.4	1.3			.1							8.8	3.4	3.0
290-310		5.6	2.6	.3	.2	.2							8.9	5.0	4.0
320-340		2.9	6.5	4.5	1.0	.6	.1						15.6	8.9	8.0
VARIABLE															
CALM		////////////////////////////////////										10.9	////////////////////////////////		
TOTALS		38.8	33.6	12.1	3.4	1.0	.1						100.0	5.5	5.0
TOTAL NUMBER OF OBSERVATIONS 930															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: AUG HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.0	2.5	1.4	.5	.4							5.8	9.1	8.0
020-040	.2	.5	.1									.9	6.3	5.5
050-070	.3	.3	.1									.8	5.4	5.0
(E) 080-100	.6	.2										.9	3.4	3.5
110-130	1.7	.9	.1	.1								2.8	4.5	4.0
140-160	3.7	7.0	2.5	.6								13.8	6.9	6.0
(S) 170-190	5.3	6.1	2.6	.4	.1							14.5	6.5	6.0
200-220	4.8	.8	.1									5.7	3.2	2.0
230-250	3.8	.8										4.5	2.8	2.0
(W) 260-280	6.9	2.2	.1									9.1	3.4	3.0
290-310	5.5	3.5	.3									9.4	4.5	4.0
320-340	3.1	7.6	5.5	1.2	1.1							18.5	8.9	8.0
VARIABLE														
CALM	////////////////////											13.4	////////	
TOTALS	36.9	32.4	12.8	2.8	1.6							100.0	5.4	5.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625      STATION NAME: ELLSWORTH AFB/RAPID CITY SD      PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7      MONTH: AUG      HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.6	4.1	2.6	.4	.1							8.8	8.0	7.0
020-040	.9	.4	.2									1.5	4.9	4.0
050-070	.4	.2	.1									.8	4.9	3.0
(E) 080-100	.5	.2										.8	3.9	3.0
110-130	1.1	.4	.2									1.7	4.5	4.0
140-160	2.8	6.5	3.1	.6								13.0	7.8	8.0
(S) 170-190	4.0	8.1	5.3	.9								18.2	7.9	8.0
200-220	4.5	1.7	.1									6.3	3.6	3.0
230-250	3.7	.3										4.0	2.6	2.0
(W) 260-280	4.1	1.0										5.1	3.4	3.0
290-310	4.4	2.0	.8	.5								7.7	5.6	4.0
320-340	2.7	8.3	6.6	1.5	.5	.2						19.8	9.4	8.0
VARIABLE														
CALM	////////////////////////////////////											12.4	////////////////////////////////	
TOTALS	30.7	33.2	19.0	3.9	.6	.2						100.0	6.2	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: AUG HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	3.4	7.8	6.3	1.6	.2							19.5	8.8	8.0
020-040	2.5	3.5	.6									6.7	5.8	6.0
050-070	1.7	.9	.2									2.8	4.7	4.0
(E) 080-100	1.4	1.2										2.6	4.6	4.0
110-130	1.9	2.0	1.0									4.9	6.3	5.5
140-160	2.5	7.1	5.9	1.2	.1							16.8	8.8	8.5
(S) 170-190	1.4	6.2	6.6	3.1	.8							18.1	10.9	11.0
200-220	1.1	1.4	.4		.1							3.0	6.4	5.0
230-250	.6	.2	.4									1.3	5.9	4.5
(W) 260-280	.8	.1										.9	2.9	2.5
290-310	.9	.6	.8									2.3	6.7	7.0
320-340	1.4	6.2	7.1	3.0	.4	.2						18.4	10.7	11.0
VARIABLE														
CALM	////////////////////////////////////											2.9	////////////////////////////////	
TOTALS	19.6	37.2	29.3	8.9	1.6	.2						100.0	8.5	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: AUG HOURS: 12-14

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N)	350-010	2.5	7.2	6.7	2.4	.2							18.9	9.6	9.0
	020-040	2.3	3.8	1.8	.1								8.0	7.1	6.5
	050-070	2.2	2.6	.5									5.3	5.6	6.0
(E)	080-100	2.2	3.0	.5									5.7	5.8	6.0
	110-130	1.6	4.1	2.5	.2								8.4	7.5	7.0
	140-160	2.0	5.4	6.8	2.4	.4							17.0	10.2	10.0
(S)	170-190	1.1	2.9	6.2	3.2	.9							14.3	11.8	12.0
	200-220	.4	1.3	.6	.1	.1							2.6	7.9	6.5
	230-250	.3	.5	.2									1.1	6.3	6.5
(W)	260-280	.3	.4	.2									1.0	6.2	7.0
	290-310	.8	.6	.9	.1								2.4	8.0	7.5
	320-340	1.0	3.5	4.4	4.1	.8							13.8	11.9	12.0
VARIABLE															
CALM		////////////////////////////////////										1.7	////////////////////////////////		
TOTALS		16.7	35.3	31.3	12.6	2.4							100.0	9.2	9.0
TOTAL NUMBER OF OBSERVATIONS 930															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: AUG HOURS: 15-17

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		2.7	5.8	5.3	1.5	.4							15.7	9.1	8.0
020-040		1.9	4.7	1.6	.2								8.5	7.3	7.0
050-070		2.2	3.4	.9	.1								6.6	6.2	6.0
(E) 080-100		2.4	4.0	1.4	.1								7.8	6.7	6.0
110-130		1.9	3.8	3.3	.5	.1							9.7	8.1	8.0
140-160		2.8	5.3	6.2	1.5	.2							16.0	9.4	9.0
(S) 170-190		1.4	3.8	3.1	1.8	.5							10.6	10.0	10.0
200-220		.8	1.9	1.2	.1								4.0	7.7	7.0
230-250		.8	1.6	.4									2.8	5.8	6.0
(W) 260-280		1.2	.6		.1								1.9	5.1	4.0
290-310		.5	1.0	.8	.2								2.5	8.3	7.0
320-340		.8	3.5	4.2	2.8	1.1							12.4	11.8	12.0
VARIABLE															
CALM		////////////////////////////////////											1.5	////////////////////////////////	
TOTALS		19.4	39.4	28.4	8.9	2.3							100.0	8.6	8.0
TOTAL NUMBER OF OBSERVATIONS 930															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625      STATION NAME: ELLSWORTH AFB/RAPID CITY SD      PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7      MONTH: AUG      HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										GE 65	TOTAL %	MEAN WIND	MEDIAN WIND	
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64					
(N) 350-010	1.8	5.7	2.6	1.4	.3		.1					11.9	9.0	8.0	
020-040	2.5	4.7	1.4									8.6	6.4	6.0	
050-070	2.9	4.7	.2		.1							8.0	5.7	5.0	
(E) 080-100	3.7	5.4	1.4									10.4	5.8	5.0	
110-130	2.4	7.0	3.5	.3								13.2	7.6	8.0	
140-160	3.3	7.4	2.8	.6	.1							14.3	7.4	7.0	
(S) 170-190	1.7	3.9	1.2	.6	.2							7.6	7.9	7.0	
200-220	1.3	.6	.2	.1	.1							2.4	6.0	4.0	
230-250	1.3	.6		.1	.2							2.3	5.6	3.0	
(W) 260-280	2.0	.3	.3	.1								2.8	4.5	3.5	
290-310	1.8	1.4	.1	.1	.2							3.7	6.1	4.5	
320-340	2.0	4.4	2.7	1.5	.5							11.2	9.7	9.0	
VARIABLE															
CALM	////////////////////////////////////											3.7	////////////////////////////////		
TOTALS	26.7	46.1	16.4	4.8	1.7		.1					100.0	7.0	6.0	
TOTAL NUMBER OF OBSERVATIONS 930															



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: AUG HOURS: 21-23

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		1.4	4.2	.8	1.0	.1							7.4	7.9	7.0
020-040		1.1	1.7	.5	.1								3.4	6.4	5.5
050-070		1.4	1.2	.2	.3								3.1	6.1	5.0
(E) 080-100		1.6	1.7	.4									3.8	5.4	5.0
110-130		1.4	4.0	.6									6.0	6.5	7.0
140-160		4.2	7.4	1.7	.1	.1							13.5	6.2	6.0
(S) 170-190		4.3	8.2	2.7	.5								15.7	6.7	6.0
200-220		4.1	2.7	.3									7.1	4.3	4.0
230-250		4.0	1.0			.1							5.1	3.8	3.0
(W) 260-280		5.8	1.1	.1									7.0	3.4	3.0
290-310		3.3	2.5	.1	.1								6.0	4.7	4.0
320-340		2.5	5.3	2.8	.9	.4	.3	.1					12.3	9.1	8.0
VARIABLE															
CALM		////////////////////////////////////											9.6	////////////////////////////////	
TOTALS		35.1	41.0	10.2	3.0	.7	.3	.1					100.0	5.6	6.0
TOTAL NUMBER OF OBSERVATIONS 930															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: AUG HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	2.0	5.0	3.4	1.2	.2		.0					11.8	8.9	8.0
020-040	1.5	2.5	.8	.1								4.9	6.5	6.0
050-070	1.4	1.7	.3	.1	.0							3.5	5.7	5.0
(E) 080-100	1.7	2.0	.5	.0								4.2	5.8	5.0
110-130	1.6	2.9	1.4	.1	.0							6.1	7.0	7.0
140-160	3.1	6.7	3.9	.9	.1							14.8	8.0	8.0
(S) 170-190	3.1	5.9	3.8	1.4	.3							14.5	8.5	8.0
200-220	2.6	1.6	.4	.1	.0							4.7	5.0	4.0
230-250	2.5	.7	.1	.0	.0							3.4	3.9	3.0
(W) 260-280	3.6	.9	.1	.0	.0							4.6	3.6	3.0
290-310	2.8	1.8	.5	.2	.1							5.3	5.5	4.0
320-340	2.0	5.7	4.7	2.0	.7	.1	.0					15.2	10.0	9.0
VARIABLE														
CALM	////////////////////											7.0	////////	
TOTALS	27.9	37.4	19.9	6.1	1.4	.1						100.0	7.0	7.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: AUG HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).

AND/OR

VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	4.1	7.6	5.5	4.8	2.1							24.1	10.2	10.0
020-040	2.1	4.1	1.4									7.6	6.6	6.0
050-070	.7	1.4	.7									2.8	6.0	6.0
(E) 080-100														
110-130	1.4	4.1	2.1									7.6	7.6	8.0
140-160	2.8	10.3	9.7	3.4								26.2	9.7	9.5
(S) 170-190	2.8	1.4	4.1	1.4	.7							10.3	10.4	11.0
200-220	.7	.7										1.4	5.0	5.0
230-250														
(W) 260-280	.7											.7	3.0	3.0
290-310	1.4											1.4	2.5	2.5
320-340	2.8	6.2	3.4	2.1								14.5	9.0	7.0
VARIABLE														
CALM	////////////////////////////////////											3.4	////////////////////////////////	
TOTALS	19.5	35.8	6.9	11.7	2.8							100.0	8.8	8.5

TOTAL NUMBER OF OBSERVATIONS 145

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: SEP HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.9	2.3	1.9	.1								6.2	7.1	6.0
020-040	1.4	.9	.2									2.6	4.9	4.0
050-070	.6	.4										1.0	4.1	4.0
(E) 080-100	.8	.2	.2									1.2	4.5	2.0
110-130	1.8	.8	.4	.4								3.4	6.7	4.0
140-160	2.6	6.2	2.3	.8								11.9	7.5	7.0
(S) 170-190	3.6	5.1	1.7	.4	.1							10.9	6.6	6.0
200-220	3.2	2.0	.1									5.3	3.9	3.5
230-250	3.7	1.0	.2	.1								5.0	3.9	3.0
(W) 260-280	7.3	1.6										8.9	3.4	3.0
290-310	7.6	3.7	.7	.3	.3							12.6	5.1	4.0
320-340	2.3	9.2	5.2	1.6	1.6	.1						20.0	9.6	8.0
VARIABLE														
CALM	////////////////////////////////////											11.0	////////	
TOTALS	36.8	33.4	12.9	3.7	2.0	.1						100.0	5.8	5.0
TOTAL NUMBER OF OBSERVATIONS 900														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: SEP HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	2.1	2.6	1.8	.4	.3							7.2	8.0	8.0
020-040	.9	.8	.1									1.8	5.6	5.0
050-070	.2	.1	.1									.4	6.0	4.5
(E) 080-100	1.1	.6	.2	.1								2.0	5.9	4.0
110-130	1.7	.3		.1	.1							2.2	5.3	4.0
140-160	1.9	3.8	2.9	1.0	.1							9.7	8.8	8.0
(S) 170-190	3.3	5.2	.9	.8								10.2	6.5	5.0
200-220	4.1			.1								4.2	2.9	2.0
230-250	3.8	.4	.2									4.4	3.1	2.0
(W) 260-280	8.7	3.0	.2									11.9	3.5	3.0
290-310	8.0	2.7	.2	.3	.1		.1					11.4	4.4	3.0
320-340	3.0	7.2	5.6	2.6	1.4	.3	.3	.1				20.6	10.6	10.0
VARIABLE														
CALM	////////////////////////////////////											13.9	////////	
TOTALS	38.8	26.7	12.2	5.4	2.0	.3	.4	.1				100.0	5.8	5.0
TOTAL NUMBER OF OBSERVATIONS 900														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: SEP HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.3	2.8	2.3	.9	.1							7.4	9.3	8.0
020-040	1.7	1.1	.2									3.0	4.1	4.0
050-070	.3	.1										.4	5.0	4.0
(E) 080-100	.6	1.4										2.0	5.8	6.0
110-130	.8	1.2	.7									2.7	6.5	6.0
140-160	1.6	3.7	2.2	.8	.4							8.7	9.0	8.5
(S) 170-190	3.4	4.0	2.2	.9	.1							10.7	7.5	7.0
200-220	4.4	.3	.1									4.9	3.2	3.0
230-250	3.7	.7	.2		.1							4.7	3.9	3.0
(W) 260-280	8.0	1.3		.2								9.6	3.2	2.0
290-310	6.2	2.6	.6		.1		.2					9.7	5.3	4.0
320-340	3.7	5.6	7.6	3.9	1.0	.4	.2					22.3	10.9	10.0
VARIABLE														
CALM	////////////////////////////////////											14.0	////////	
TOTALS	35.7	24.8	16.1	6.7	1.8	.4	.4					100.0	6.3	6.0
TOTAL NUMBER OF OBSERVATIONS 900														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: SEP HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	2.6	7.0	5.8	2.1	.2							17.7	9.4	9.0
020-040	2.6	2.3	.8	.1								5.8	5.5	5.0
050-070	2.3	.9	.3									3.6	4.0	3.0
(E) 080-100	1.3	1.4	.3									3.1	5.5	5.5
110-130	1.6	3.0	1.3	.2								6.1	7.3	7.0
140-160	2.8	4.3	5.1	1.4	.9	.1						14.7	9.7	10.0
(S) 170-190	1.8	4.6	2.1	1.7	.9	.2						11.2	10.2	8.0
200-220	1.3	1.4		.1								2.9	4.8	5.0
230-250	.8	.7	.4	.2								2.1	7.8	7.0
(W) 260-280	.7	.3	.2	.1								1.3	5.5	4.0
290-310	.1	1.1	.8	.2	.3			.1				2.7	12.4	11.0
320-340	2.2	3.6	7.6	5.7	2.1	1.3	.2	.1				22.8	13.5	13.0
VARIABLE														
CALM	////////////////////////////////////											6.1	////////	
TOTALS	20.1	30.6	24.7	11.8	4.4	1.6	.2	.2				100.0	9.1	9.0
TOTAL NUMBER OF OBSERVATIONS 900														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: SEP HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.7	6.6	7.3	3.1	.8							19.4	10.6	10.0
020-040	4.4	4.3	1.0									9.8	5.5	5.0
050-070	2.8	1.8	.2									4.8	4.7	4.0
(E) 080-100	1.6	1.9										3.4	4.9	5.0
110-130	1.8	4.2	2.0	.3								8.3	7.5	8.0
140-160	1.6	4.8	6.2	2.6	.6							15.7	10.6	10.0
(S) 170-190	.9	2.6	2.4	2.4	1.2							9.6	12.2	13.0
200-220	.4	.6	.8	.2	.2							2.2	10.0	10.0
230-250	.3	.2	.9	.1	.1	.1						1.8	11.1	12.0
(W) 260-280	.4	.2	.1									.8	5.3	4.0
290-310	.2	.1	1.0	.2	.6							2.1	13.5	13.0
320-340	1.0	4.1	5.8	5.4	3.3	.8						20.4	13.9	14.0
VARIABLE														
CALM	////////////////////////////////////											1.7	////////	
TOTALS	17.1	31.4	27.7	14.3	6.8	.9						100.0	10.0	10.0
TOTAL NUMBER OF OBSERVATIONS 900														



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: SEP HOURS: 15-17

WIND SPEED IN KNOTS														
DIRECTION (DEGREES)	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.0	6.0	8.2	2.4	.4							19.1	10.1	10.0
020-040	2.1	4.2	2.2	.1								8.7	7.1	6.0
050-070	1.4	3.4	1.4	.1								6.4	6.7	6.0
(E) 080-100	1.7	3.0	.9		.1							5.7	6.6	6.0
110-130	2.1	3.6	3.0	.4								9.1	8.4	8.0
140-160	1.1	4.9	5.4	1.3	.3							13.1	9.9	10.0
(S) 170-190	1.0	1.9	3.0	1.6	.3							7.8	10.9	12.0
200-220	.9	.7	.7	.6	.2	.1						3.1	9.9	9.0
230-250	.2	.4	.9	.1								1.7	10.1	11.0
(W) 260-280	.3	.2	.3	.1		.1						1.1	9.6	8.5
290-310	.4	.2	.4	.7	.2							2.0	11.9	13.5
320-340	.9	4.2	6.2	5.2	3.3	.7						20.6	13.8	14.0
VARIABLE														
CALM	////////////////////////////////////											1.7	////////////////////////////////	
TOTALS	14.1	32.7	32.6	12.6	4.8	.9						100.0	9.9	10.0
TOTAL NUMBER OF OBSERVATIONS 900														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: SEP HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	2.6	7.1	4.0	1.0	.2							14.9	8.4	8.0
020-040	1.9	3.0	1.3									6.2	6.7	7.0
050-070	2.1	3.7	.9	.1								6.8	6.2	6.0
(E) 080-100	2.2	3.6	1.1	.1								7.0	6.5	6.0
110-130	1.6	4.3	3.1	1.0								10.0	8.7	8.0
140-160	2.6	5.6	1.9	.6	.1							10.7	7.4	7.0
(S) 170-190	2.7	3.8	.9	.1								7.4	5.9	6.0
200-220	1.2	.7	.2									2.1	5.0	4.0
230-250	1.3	.4	.3									2.1	4.9	4.0
(W) 260-280	2.0	.9										2.9	3.6	3.0
290-310	1.8	2.1	.4	.2	.2							4.8	7.2	6.0
320-340	1.9	5.8	5.2	3.6	.7	.1						17.2	10.6	10.0
VARIABLE														
CALM	////////////////////////////////////											7.9	////////	
TOTALS	23.9	41.0	19.3	6.7	1.2	.1						100.0	7.1	7.0
TOTAL NUMBER OF OBSERVATIONS 900														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: SEP HOURS: 21-23

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		2.6	2.9	1.6									7.0	6.4	6.0
020-040		.7	2.0	.7									3.3	6.6	6.0
050-070		.6	.8										1.3	5.3	5.5
(E) 080-100		.6	1.0	.1									1.7	5.7	5.0
110-130		1.0	1.1	.4	.4								3.0	7.8	7.0
140-160		2.3	6.9	1.6	.1								10.9	6.7	6.0
(S) 170-190		3.3	6.9	1.2	.4								11.9	6.4	6.0
200-220		3.1	2.1	.7	.1								6.0	5.1	4.0
230-250		4.1	1.0										5.1	3.0	2.0
(W) 260-280		7.4	.9										8.3	2.9	3.0
290-310		6.1	3.4	.7									10.2	4.5	4.0
320-340		2.8	9.0	5.0	2.0	1.1	.2	.1					20.2	9.6	8.0
VARIABLE															
CALM		////////////////////////////////////											11.0	////////////////////////////////	
TOTALS		34.6	38.0	12.0	3.0	1.1	.2	.1					100.0	5.7	6.0
TOTAL NUMBER OF OBSERVATIONS 900															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: SEP HOURS: ALL

WIND SPEED IN KNOTS																	
DIRECTION	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN			
(DEGREES)												%	WIND	WIND			
(N) 350-010	2.1	4.7	4.1	1.3	.3								12.4	9.1	9.0		
020-040	2.0	2.3	.8	.0								5.1	6.0	6.0			
050-070	1.3	1.4	.4	.0								3.1	5.6	5.0			
(E) 080-100	1.2	1.6	.4	.0	.0								3.3	5.9	6.0		
110-130	1.5	2.3	1.4	.4	.0								5.6	7.7	8.0		
140-160	2.0	5.0	3.5	1.1	.3	.0								11.9	8.9	8.0	
(S) 170-190	2.5	4.3	1.8	1.0	.3	.0								10.0	8.2	7.0	
200-220	2.3	1.0	.3	.1	.1	.0								3.8	5.1	4.0	
230-250	2.2	.6	.4	.1	.0	.0								3.4	4.8	3.0	
(W) 260-280	4.4	1.1	.1	.1				.0						5.6	3.5	3.0	
290-310	3.8	2.0	.6	.3	.2			.0	.0						6.9	6.0	4.0
320-340	2.2	6.1	6.0	3.7	1.8	.5	.1	.0						20.5	11.6	11.0	
VARIABLE																	
CALM	////////////////////////////////////											8.4	////////				
TOTALS	27.5	32.4	19.8	8.1	3.0	.5	.1						100.0	7.5	7.0		
TOTAL NUMBER OF OBSERVATIONS 7200																	

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: SEP HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).

AND/OR

VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	.8	8.8	7.8	1.7	.6							19.6	10.0	10.0
020-040	3.4	3.4	1.5									8.4	6.0	5.0
050-070	2.5	2.3	1.0									5.7	5.4	5.0
(E) 080-100	1.3	1.5	.8									3.6	6.1	6.0
110-130	1.7	3.4	3.6	.6	.2							9.5	8.9	9.0
140-160	1.7	5.5	5.1	1.3	.4							14.1	9.5	9.0
(S) 170-190	.6	1.1	.6	.2								2.5	7.8	7.0
200-220	1.3	.2										1.5	2.5	2.0
230-250														
(W) 260-280	.2											.2	4.0	4.0
290-310		.8	.6	.2								1.5	9.1	9.5
320-340	1.7	5.7	11.2	6.7	3.4	1.0						29.7	13.2	12.0
VARIABLE														
CALM	////////////////////////////////////											3.6	////////////////////////////////	
TOTALS	15.2	32.7	32.2	10.7	4.6	1.0						100.0	9.5	10.0

TOTAL NUMBER OF OBSERVATIONS 525

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: OCT HOURS: 00-02

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		1.1	2.6	1.5	1.1								6.2	9.1	8.0
020-040		.4	.3										.8	4.1	3.0
050-070		.1	.4										.5	6.2	6.0
(E) 080-100		.1	.3										.4	6.3	6.5
110-130		1.1	1.0										2.0	4.2	4.0
140-160		3.1	3.7	2.2	.4	.1							9.5	7.2	6.0
(S) 170-190		4.5	3.9	1.3	.9								10.5	6.2	5.0
200-220		3.4	1.3	.1									4.8	3.4	3.0
230-250		4.5	.8	.3									5.6	3.5	3.0
(W) 260-280		8.6	3.7	.2		.1							12.6	3.9	4.0
290-310		7.3	2.6	.6	.1	.5	.1						11.3	5.3	3.0
320-340		2.5	3.9	6.0	3.4	1.4	.9	.5					18.6	12.6	12.0
VARIABLE															
CALM		////////////////////////////////////										17.1	////////////////////////////////		
TOTALS		36.7	24.5	12.2	5.9	2.1	1.0	.5					100.0	5.9	5.0
TOTAL NUMBER OF OBSERVATIONS 930															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: OCT HOURS: 03-05

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		1.4	3.2	1.7	1.0	.1							7.4	8.6	8.0
020-040		.1	.3	.2									.6	6.7	7.0
050-070		.3	.2										.5	4.0	2.0
(E) 080-100		.4	.1										.5	3.4	4.0
110-130		.5	1.2	.1	.1								1.9	6.3	6.0
140-160		1.7	2.6	1.5	.4								6.2	7.5	7.0
(S) 170-190		3.5	3.7	2.4	.4								10.0	7.0	6.0
200-220		3.0	1.2	.1									4.3	3.9	4.0
230-250		3.5	.5	.3									4.4	3.5	3.0
(W) 260-280		7.8	2.8	.1	.1								10.9	3.8	3.0
290-310		7.6	3.8	1.1	.4	.1	.6						13.7	6.2	4.0
320-340		3.4	6.0	4.4	3.4	1.3	.9	.5	.1				20.1	11.6	10.0
VARIABLE															
CALM		////////////////////////////////////											19.4	////////////////////////////////	
TOTALS		33.2	25.6	11.9	5.8	1.5	1.5	.5	.1				100.0	5.9	6.0
TOTAL NUMBER OF OBSERVATIONS 930															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: OCT HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.5	2.5	2.5	1.1	.3	.1						8.0	10.1	9.5
020-040	.4	.4	.1									1.0	5.4	6.0
050-070	.4	.4										.9	5.0	4.5
(E) 080-100	.3											.3	3.3	4.0
110-130	.4	.5	.1									1.1	5.6	6.0
140-160	2.3	2.7	1.8	.1								6.9	6.8	6.0
(S) 170-190	3.3	4.0	2.7	1.0	.2							11.2	7.6	7.0
200-220	3.2	.4	.4									4.1	3.8	3.0
230-250	5.3	.2										5.5	2.2	2.0
(W) 260-280	8.4	1.9	.1					.1				10.5	3.6	3.0
290-310	4.9	2.7	1.2	.3	.3	.3		.1				9.9	7.1	4.5
320-340	3.2	6.2	5.6	3.1	1.7	1.2	.6					21.7	11.9	10.0
VARIABLE														
CALM	////////////////////////////////////											19.0	////////	
TOTALS	33.6	21.9	14.5	5.6	2.5	1.6	.7	.1				100.0	6.2	6.0
TOTAL NUMBER OF OBSERVATIONS 930														



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LS" TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: OCT HOURS: 09-11

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		2.5	5.3	5.6	2.2	.4	.4						16.3	10.1	10.0
020-040		1.7	1.1	.1									2.9	4.4	4.0
050-070		1.1	.5	.2									1.8	4.3	4.0
(E) 080-100		1.1	.1										1.2	2.8	2.0
110-130		1.9	1.7	.4									4.1	5.1	5.0
140-160		2.0	5.1	3.4	1.3	.2							12.0	8.9	8.0
(S) 170-190		2.9	3.3	3.7	2.3	1.1							13.2	10.2	10.0
200-220		3.1	1.5	.3		.1							5.1	4.7	3.0
230-250		1.9	.8	.2									2.9	3.6	2.0
(W) 260-280		1.8	1.2	.2	.1								3.3	5.3	4.0
290-310		1.4	1.3	1.4	1.4	.6	.4	.3					6.9	12.7	12.0
320-340		2.0	5.3	4.9	5.4	2.0	2.3	.8	.1				22.8	14.3	14.0
VARIABLE															
CALM		////////////////////////////////////											7.4	////////////////////////////////	
TOTALS		23.4	27.2	20.4	12.7	4.4	3.1	1.1	.1				100.0	9.2	8.0
TOTAL NUMBER OF OBSERVATIONS 930															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: OCT HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	3.2	6.2	6.7	2.4	1.2	.3	.2					20.2	10.4	10.0
020-040	2.5	2.0	.1									4.6	4.5	4.0
050-070	1.2	.4	.1									1.7	3.9	4.0
(E) 080-100	1.7	1.0	.1									2.8	4.2	4.0
110-130	2.4	2.9	1.5									6.8	6.3	6.0
140-160	2.5	5.5	3.5	2.3	1.0	.1						14.8	10.0	8.0
(S) 170-190	1.7	2.4	3.7	1.7	.8	.1						10.3	10.9	11.0
200-220	.9	.6	.6	.4								2.6	8.5	8.0
230-250	.8	.3	.9	.1								2.0	7.3	8.0
(W) 260-280	.6		.8	.2								1.6	8.9	11.0
290-310	.9	.6	1.2	.9	1.0	.8						5.3	14.2	14.0
320-340	1.6	3.9	6.6	6.9	4.3	1.3	.6	.1				25.3	14.9	15.0
VARIABLE														
CALM	////////////////////											1.9	////////	
TOTALS	20.0	25.8	25.8	14.9	8.3	2.6	.8	.1				100.0	10.6	10.0
TOTAL NUMBER OF OBSERVATIONS 930														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: OCT HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	2.4	6.6	5.5	3.5	.8	.1						18.8	10.5	10.0
020-040	1.8	1.8	.2									3.9	5.0	5.0
050-070	2.7	1.2										3.9	3.6	3.0
(E) 080-100	1.4	1.7	.3									3.4	5.0	5.0
110-130	2.7	3.9	1.1	.2								7.8	6.2	6.0
140-160	2.6	6.3	3.8	1.3	.2	.1						14.3	8.6	8.0
(S) 170-190	2.5	2.9	1.8	1.3	.1							8.6	8.4	8.0
200-220	1.4	1.0	.5									2.9	5.9	5.0
230-250	.8	.9	.1									1.7	5.4	5.5
(W) 260-280	.8	.9	.3									1.9	5.8	6.0
290-310	1.2	1.4	1.8	1.1	.4	.3						6.2	11.7	12.5
320-340	1.8	3.0	6.9	4.9	3.1	.8	.4					21.0	13.9	14.0
VARIABLE														
CALM	////////////////////////////////////											5.5	////////	
TOTALS	22.1	31.6	22.3	12.3	4.6	1.3	.4					100.0	8.9	8.0
TOTAL NUMBER OF OBSERVATIONS 930														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: OCT HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.6	4.2	2.8	.4	.2							9.2	8.5	8.0
020-040	1.7	1.5	.1	.1								3.4	5.0	4.5
050-070	.8	1.0										1.7	4.9	5.5
(E) 080-100	2.2	.8	.2									3.1	4.3	4.0
110-130	1.6	2.2	.6	.2								4.6	6.5	6.0
140-160	3.5	4.7	1.7	.4								10.4	6.5	6.0
(S) 170-190	5.4	4.0	.9	.2								10.4	5.5	4.0
200-220	2.9	1.1	.1									4.1	3.6	3.0
230-250	3.8	.2	.1									4.1	2.6	2.0
(W) 260-280	5.3	1.1		.1								6.5	3.2	2.5
290-310	2.9	3.5	.1	.3	.1	.1						7.1	6.0	5.0
320-340	2.9	7.4	5.2	2.3	1.3	.8	.1					19.9	10.4	9.0
VARIABLE														
CALM	////////////////////////////////////											15.4	////////	
TOTALS	34.6	31.7	11.8	4.0	1.6	.9	.1					100.0	5.7	6.0
TOTAL NUMBER OF OBSERVATIONS 930														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: OCT HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65		
(N) 350-010	1.2	3.2	2.4	.5	.2							7.5	9.0
020-040	.2	.8	.3									1.3	6.8
050-070	.5	.3										.9	3.6
(E) 080-100	.2	.2	.1									.5	5.6
110-130	.9	.8										1.6	3.9
140-160	3.3	3.7	1.7	.2	.1							9.0	6.8
(S) 170-190	4.6	4.6	2.3	.6	.1							12.3	6.6
200-220	5.4	1.5	.1									7.0	3.6
230-250	4.7	.3	.2									5.3	2.7
(W) 260-280	7.4	2.5	.4	.1								10.4	3.9
290-310	7.2	1.9	.9	.3	.1		.3					10.8	5.6
320-340	3.1	5.7	4.1	2.2	.6	.9	.3		.1			17.0	10.9
VARIABLE													
CALM	////////////////////////////////////										16.5	////////	
TOTALS	38.7	25.5	12.5	3.9	1.1	.9	.6		.1			100.0	5.6
TOTAL NUMBER OF OBSERVATIONS 930													

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: OCT HOURS: ALL

		WIND SPEED IN KNOTS														
DIRECTION		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN	
(DEGREES)												%	WIND	WIND		
(N) 350-010		1.9	4.2	3.6	1.5	.4	.1	.0					11.7	9.8	9.0	
020-040		1.1	1.0	.1	.0								2.3	4.9	5.0	
050-070		.9	.6	.0									1.5	4.2	4.0	
(E) 080-100		.9	.5	.1									1.5	4.4	4.0	
110-130		1.4	1.8	.5	.1								3.7	5.9	6.0	
140-160		2.6	4.3	2.5	.8	.2	.0						10.4	8.0	8.0	
(S) 170-190		3.6	3.5	2.3	1.0	.3	.0						10.8	7.8	6.0	
200-220		2.9	1.1	.3	.1	.0							4.4	4.4	4.0	
230-250		3.2	.5	.3	.0								3.9	3.4	2.0	
(W) 260-280		5.1	1.7	.3	.1	.0		.0					7.2	4.0	3.0	
290-310		4.2	2.2	1.0	.6	.4	.3	.1	.0				8.9	7.8	5.0	
320-340		2.6	5.2	5.5	4.0	2.0	1.1	.5	.0	.0			20.8	12.7	12.0	
VARIABLE																
CALM		////////////////////////////////////										12.8	////////////////////////////////			
TOTALS		30.4	26.7	16.5	8.2	3.3	1.5	.6					100.0	7.2	7.0	

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: OCT HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).

AND/OR

VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

WIND SPEED IN KNOTS														
DIRECTION	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(DEGREES)												%	WIND	WIND
(N) 350-010	1.9	11.3	6.4	2.4	.7	.2						22.8	9.8	9.0
020-040	1.6	5.4	.7									7.8	6.1	6.0
050-070	1.9	2.6	.2									4.7	5.8	6.0
(E) 080-100	.7	1.4	.2									2.4	5.9	5.0
110-130	1.2	1.4		.2								2.8	5.9	6.0
140-160	3.1	1.9	2.6	.7	.2							8.5	8.1	8.0
(S) 170-190	2.4	1.6	2.4	.5	.2							7.1	7.5	7.5
200-220	.5		.2									.7	6.0	3.0
230-250														
(W) 260-280	1.2	.2										1.4	3.8	3.5
290-310	1.4	1.2	.5	.7	.2	.5						4.5	10.5	8.0
320-340	1.9	9.2	7.8	4.5	2.4	4.0	3.1	.2				32.9	15.0	13.0
VARIABLE														
CALM	////////////////////////////////////											4.5	////////////////////////////////	
TOTALS	17.8	36.2	21.0	9.0	3.7	4.7	3.1	.2				100.0	10.0	8.0

TOTAL NUMBER OF OBSERVATIONS 425

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625      STATION NAME: ELLSWORTH AFB/RAPID CITY SD      PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7      MONTH: NOV      HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.8	3.3	2.6	1.8	.1	.2						9.8	9.8	8.5
020-040	.7	1.0	.6									2.2	7.1	8.0
050-070	.6	.7										1.2	4.7	5.0
(E) 080-100	.8	.2										1.0	3.2	2.0
110-130	1.1	1.3	.1	.1								2.7	5.5	5.0
140-160	1.8	3.1	1.0	.2	.1							6.2	6.9	7.0
(S) 170-190	3.3	2.0	1.0	.1								6.4	5.6	4.0
200-220	3.6	.7										4.2	3.2	3.0
230-250	5.4	1.3	.1									6.9	3.4	3.0
(W) 260-280	6.9	2.2	.3									9.4	3.7	3.0
290-310	6.1	3.0	1.2	1.3	.1	.1						11.9	6.5	4.0
320-340	2.0	6.1	4.4	3.4	3.0	.8	.8					20.6	13.0	11.0
VARIABLE														
CALM	////////////////////////////////////											17.4	////////	
TOTALS	34.1	24.9	11.3	6.9	3.3	1.1	.8					100.0	6.3	6.0
TOTAL NUMBER OF OBSERVATIONS 900														



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: NOV HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.8	4.1	4.0	1.4	.7	.3						12.3	10.3	10.0
020-040	.8	.3	.4									1.6	6.4	5.0
050-070	.6	.7										1.2	4.0	5.0
(E) 080-100	.3	.9	.1									1.3	6.2	7.0
110-130	1.1	1.0	.1									2.2	5.3	5.0
140-160	2.0	2.1	.4	.1	.1							4.8	6.3	6.0
(S) 170-190	2.3	2.1	.7	.1								5.2	5.7	5.0
200-220	4.7	.7	.2									5.6	3.4	3.0
230-250	4.7	.7										5.3	3.0	3.0
(W) 260-280	8.7	2.2										10.9	3.2	3.0
290-310	6.0	3.2	1.4	.9	.4	.1						12.1	6.7	5.0
320-340	2.9	5.1	6.7	2.9	1.7	1.1	.6	.2				21.1	12.4	11.0
VARIABLE														
CALM	////////////////////////////////////											16.3	////////	
TOTALS	35.9	23.1	14.0	5.4	2.9	1.5	.6	.2				100.0	6.3	6.0
TOTAL NUMBER OF OBSERVATIONS 900														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: NOV HOURS: 06-08

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		1.4	3.4	3.3	1.4	.9	.2						10.8	10.8	10.0
020-040		.9	.9	.6									2.3	6.2	6.0
050-070		.9		.1									1.0	3.3	3.0
(E) 080-100		.1	.3										.4	5.5	5.5
110-130		1.2	1.3										2.6	4.5	5.0
140-160		1.9	2.1	1.0		.1							5.1	6.2	6.0
(S) 170-190		2.2	1.6	.6		.1							4.4	5.6	4.5
200-220		2.9	.4		.1								3.4	3.1	2.0
230-250		3.8	.3	.6		.1							4.8	4.3	3.0
(W) 260-280		10.3	2.0										12.3	2.9	2.0
290-310		7.2	2.0	1.7	.4	.2							11.6	5.6	4.0
320-340		4.3	7.1	4.3	3.1	2.4	.8	.4					22.6	11.2	9.0
VARIABLE															
CALM		////////////////////////////////////											18.7	////////////////////////////////	
TOTALS		37.1	21.4	12.2	5.0	3.8	1.0	.4					100.0	5.9	5.0
TOTAL NUMBER OF OBSERVATIONS 900															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: NOV HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	3.1	4.8	3.3	2.4	.9	.1						14.7	9.7	8.0
020-040	2.2	1.2	.1									3.6	4.3	4.0
050-070	1.1	.2										1.3	2.8	2.0
(E) 080-100	.9	.6										1.4	4.2	4.0
110-130	1.2	1.1	.2									2.6	5.4	5.0
140-160	3.1	3.2	2.9	.7								9.9	7.4	7.0
(S) 170-190	3.7	4.4	1.8	.6	.1		.1					10.7	7.3	7.0
200-220	4.6	1.8	.1									6.4	3.8	3.0
230-250	2.8	.7	.4									3.9	4.6	4.0
(W) 260-280	2.1	.3	.2	.1								2.8	4.1	3.0
290-310	2.6	1.2	1.3	1.2	.6							6.9	8.9	7.5
320-340	2.4	3.7	5.8	5.1	2.9	2.1	.7					22.7	14.4	14.0
VARIABLE														
CALM	////////////////////////////////////											13.2	////////	
TOTALS	29.8	23.2	16.1	10.1	4.5	2.2	.8					100.0	7.7	7.0
TOTAL NUMBER OF OBSERVATIONS 900														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: NOV HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	2.4	5.8	5.0	2.6	.3	.3						16.4	9.8	9.5
020-040	3.0	2.7	.4	.1								6.2	5.1	5.0
050-070	2.6	.8										3.3	3.7	3.0
(E) 080-100	1.8	.4	.2									2.4	4.3	4.0
110-130	2.6	2.2	1.0	.1	.1							6.0	6.4	5.5
140-160	3.1	5.8	5.1	1.1	.3							15.4	8.8	8.0
(S) 170-190	2.2	4.3	2.9	.6	.2							10.2	8.2	8.0
200-220	.7	.8	.2	.1								1.8	5.9	5.5
230-250	.6	.2	.1	.1								1.0	5.3	3.0
(W) 260-280	.4	.3	.1	.3								1.2	7.9	6.0
290-310	.8	.7	2.3	1.4	.8	.1						6.1	12.8	14.0
320-340	1.3	3.3	7.0	5.6	4.6	1.2	1.2					24.2	15.4	15.0
VARIABLE														
CALM	////////////////////////////////////											5.6	////////	
TOTALS	21.5	27.3	24.3	12.0	6.3	1.6	1.2					100.0	9.5	9.0
TOTAL NUMBER OF OBSERVATIONS 900														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: NOV HOURS: 15-17

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		2.2	6.1	4.3	2.3	.4							15.4	9.4	9.0
020-040		2.4	2.4	.6									5.4	5.4	6.0
050-070		2.7	.7										3.3	3.3	3.0
(E) 080-100		2.0	.7	.2									2.9	4.3	4.0
110-130		4.2	4.0	.7									8.9	5.0	5.0
140-160		3.4	6.6	2.6	.8	.1							13.4	7.5	7.0
(S) 170-190		1.4	2.8	1.2	.2	.1							5.8	7.5	7.0
200-220		1.1	.7	.1									1.9	4.7	4.0
230-250		1.2	.2	.1									1.6	3.6	2.5
(W) 260-280		2.0	.9	.3	.1								3.3	5.2	3.0
290-310		1.8	2.2	1.0	.6	.1	.1						5.8	7.8	6.0
320-340		2.0	5.8	5.2	5.3	3.4	1.0	1.0	.1				23.9	14.0	13.0
VARIABLE															
CALM		////////////////////////////////////										8.3	////////////////////////////////		
TOTALS		26.4	33.1	16.3	9.3	4.1	1.1	1.0	.1				100.0	8.0	7.0
TOTAL NUMBER OF OBSERVATIONS 900															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: NOV HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	2.0	2.1	2.4	1.6	.4							8.6	10.0	10.0
020-040	.9	1.0	.1									2.0	5.3	6.0
050-070	.8	1.1	.1									2.0	5.8	5.0
(E) 080-100	1.3	.8										2.1	4.3	4.0
110-130	1.7	1.2	.3									3.2	4.9	4.0
140-160	3.6	6.0	.6	.1								10.2	5.7	6.0
(S) 170-190	2.9	4.2	.7		.2							8.0	6.0	5.0
200-220	3.1	.6	.1									3.8	3.2	3.0
230-250	3.7	.6	.1									4.3	3.4	2.0
(W) 260-280	8.6	1.1	.1	.2								10.0	3.4	3.0
290-310	6.4	2.8	.3	.8	.1							10.4	5.2	4.0
320-340	2.6	5.3	4.3	2.9	3.3	.9	.4	.1				19.9	12.9	12.0
VARIABLE														
CALM	////////////////////////////////////											15.4	////////	
TOTALS	37.6	26.8	9.1	5.6	4.0	.9	.4	.1				100.0	6.1	5.0
TOTAL NUMBER OF OBSERVATIONS 900														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: NOV HOURS: 21-23

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		.9	2.4	1.6	1.0	.2							6.1	9.6	8.0
020-040		.9	1.0	.6	.1								2.6	6.8	7.0
050-070		.4	.3										.8	4.9	4.0
(E) 080-100		.6	.2										.8	3.4	2.0
110-130		1.7	1.0	.2									2.9	4.8	4.0
140-160		2.4	4.9	1.3	.2								8.9	6.5	6.0
(S) 170-190		3.1	3.0	1.0	.3	.1							7.6	6.3	5.5
200-220		3.4	1.1	.1									4.7	3.3	3.0
230-250		4.7	1.2	.2									6.1	3.7	3.0
(W) 260-280		8.3	2.6	.4									11.3	3.6	3.0
290-310		6.8	1.8	1.1	.6	.1		.1					10.4	5.6	4.0
320-340		2.7	5.7	4.7	3.8	3.3	1.2	.9					22.2	13.3	12.0
VARIABLE															
CALM		////////////////////////////////////										15.7	////////////////////////////////		
TOTALS		35.9	25.2	11.2	6.0	3.7	1.2	1.0					100.0	6.4	6.0
TOTAL NUMBER OF OBSERVATIONS 900															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: NOV HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	2.0	4.0	3.3	1.8	.5	.2						11.8	9.9	9.0
020-040	1.5	1.3	.4	.0								3.2	5.6	5.0
050-070	1.2	.6	.0									1.8	4.0	3.5
(E) 080-100	1.0	.5	.1									1.6	4.4	4.0
110-130	1.8	1.7	.3	.0	.0							3.9	5.3	5.0
140-160	2.7	4.2	1.9	.4	.1							9.2	7.2	6.0
(S) 170-190	2.7	3.1	1.2	.2	.1		.0					7.3	6.7	6.0
200-220	3.0	.8	.1	.0								4.0	3.6	3.0
230-250	3.3	.7	.2	.0	.0							4.2	3.7	3.0
(W) 260-280	5.9	1.5	.2	.1								7.7	3.6	3.0
290-310	4.7	2.1	1.3	.9	.3	.1	.0					9.4	6.9	4.0
320-340	2.5	5.3	5.3	4.0	3.1	1.1	.8	.1				22.1	13.4	12.0
ARABLE														
CALM	////////////////////////////////////											13.8	////////////////////////////////	
TOTALS	32.3	25.8	14.3	7.4	4.1	1.4	.8	.1				100.0	7.0	6.0

TOTAL NUMBER OF OBSERVATIONS 7200



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: NOV HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).

AND/OR

VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

		WIND SPEED IN KNOTS											TOTAL	MEAN	MEDIAN
DIRECTION		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(DEGREES)													%	WIND	WIND
(N)	350-010	4.5	12.1	8.0	6.7	.6	.						31.9	9.9	9.0
	020-040	3.3	4.6	1.1	.2								9.3	6.3	6.0
	050-070	1.3	2.1										3.3	4.6	5.0
(E)	080-100	1.4	1.6										3.0	5.2	5.0
	110-130	2.6	2.7	.3	.2								5.7	5.5	5.0
	140-160	2.2	4.6	1.4	.3	.3							8.9	7.3	7.0
(S)	170-190	2.2	1.9	1.3		.2		.2					5.7	7.3	6.5
	200-220	.3	.2										.5	3.7	2.0
	230-250	.3											.3	3.0	3.0
(W)	260-280	.5											.5	2.7	3.0
	290-310	1.0	.5	.2	.3			.2					2.1	8.3	5.0
	320-340	2.4	5.6	3.0	3.8	4.6	1.9	1.0	.2				22.5	14.8	15.0
VARIABLE															
	CALM	////////////////////////////////////											6.2	////////////////////////////////	
TOTALS		22.0	35.9	15.3	11.5	5.7	1.9	1.4	.2				100.0	9.0	8.0

TOTAL NUMBER OF OBSERVATIONS 627

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: DEC HOURS: 00-02

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		1.0	2.4	4.1	1.8	1.4	.1	.1					10.9	12.1	11.0
020-040		.6	1.1	.8	.2								2.7	8.0	8.0
050-070		.4	.6										1.1	5.0	5.0
(E) 080-100		.5											.5	3.6	4.0
110-130		.8	.6	.3									1.7	6.0	5.5
140-160		1.9	1.8	.8	.2	.2							4.9	6.9	6.0
(S) 170-190		3.0	2.8	.8	.2	.1							6.9	6.1	5.0
200-220		2.2	.3		.1								2.6	3.7	3.0
230-250		4.4	1.0										5.4	3.1	2.5
(W) 260-280		7.7	3.3	.1									11.2	3.6	3.0
290-310		7.3	3.1	1.2	1.1	.2	.2	.1					13.2	6.5	4.0
320-340		3.5	5.5	4.8	4.1	3.8	.9	.5	.2				23.3	13.0	12.0
VARIABLE															
CALM		////////////////////////////////////										15.6	////////////////////////////////		
TOTALS		33.3	22.5	12.9	7.7	5.7	1.2	.7	.2				100.0	7.0	6.0
TOTAL NUMBER OF OBSERVATIONS 930															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: DEC HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	.6	2.4	3.5	2.8	1.1	.2						10.6	12.8	13.0
020-040	.8	1.2	.4									2.4	6.4	7.5
050-070	.8	.8										1.5	4.3	4.5
(E) 080-100	.3	.3	.1									.8	5.0	5.0
110-130	1.8	.8										2.6	3.9	3.5
140-160	.1	1.8	.4	.2	.1							2.7	8.8	8.0
(S) 170-190	2.0	2.4	1.3	.1								5.8	6.5	7.0
200-220	2.3	.8	.1									3.1	3.7	4.0
230-250	3.2	1.4	.1	.1								4.8	4.0	3.0
(W) 260-280	9.2	2.6	.2									12.0	3.6	3.0
290-310	8.0	2.7	1.5	1.7	.3	.4	.1					14.7	7.1	4.0
320-340	3.9	4.8	4.2	4.1	4.4	1.1	.9	.1				23.4	13.6	13.0
VARIABLE														
CALM	////////////////////////////////////											15.5	////////	
TOTALS	33.0	22.0	11.8	9.0	5.9	1.7	1.0	.1				100.0	7.3	6.0
TOTAL NUMBER OF OBSERVATIONS 930														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: DEC HOURS: 06-08

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N)	350-010	1.2	2.5	3.5	2.0	1.2	.2						10.6	12.1	11.0
	020-040	.8	.8	.2									1.7	5.9	6.0
	050-070	.5	.8										1.3	4.8	5.0
(E)	080-100	.3	.2										.5	3.6	2.0
	110-130	1.0	.8										1.7	4.6	4.0
	140-160	.9	1.0	.4	.2								2.5	7.3	7.0
(S)	170-190	1.8	2.6	1.0									5.4	6.5	7.0
	200-220	1.9	.5										2.5	3.5	4.0
	230-250	4.2	.8	.1									5.1	3.4	3.0
(W)	260-280	10.3	1.8										12.2	3.0	3.0
	290-310	9.2	2.7	.8	1.0	.4	.5						14.6	6.1	4.0
	320-340	2.9	4.4	5.3	5.5	3.3	1.6	.4	.4				23.9	13.9	14.0
VARIABLE															
CAIM		////////////////////////////////////										18.1	////////////////////////////////		
TOTALS		35.0	18.9	11.3	8.7	4.9	2.3	.4	.4				100.0	6.9	6.0
TOTAL NUMBER OF OBSERVATIONS 930															

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: DEC HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.8	2.8	4.2	2.6	1.2	.1						12.7	11.5	12.0
020-040	.6	.9	.5	.5	.1							2.7	9.4	8.0
050-070	.8	.5	.2									1.5	5.5	5.0
(E) 080-100	.3	.1	.2									.6	6.3	5.0
110-130	1.1	1.1	.5									2.7	5.6	5.0
140-160	2.0	1.8	1.3	.1	.1							5.4	6.6	6.0
(S) 170-190	3.2	4.3	1.4	.8								9.7	6.9	6.0
200-220	2.7	.9										3.5	3.2	3.0
230-250	4.3	1.0	.2	.1								5.6	3.6	3.0
(W) 260-280	4.8	1.2	.5	.1	.2							6.9	4.7	3.0
290-310	1.9	1.6	.8	.6	.9	.6	.3					6.8	12.0	8.0
320-340	3.5	3.4	5.6	4.9	5.4	1.7	.6	.1				25.4	14.6	15.0
VARIABLE														
CALM	////////////////////											16.6	////////	
TOTALS	27.0	19.6	15.4	9.7	7.9	2.4	.9	.1				100.0	8.2	8.0
TOTAL NUMBER OF OBSERVATIONS 930														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: DEC HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	2.6	4.9	6.9	2.8	1.8	.6						19.7	11.7	11.0
020-040	1.7	1.1	.9	.3	.1							4.1	7.0	5.5
050-070	1.8	1.1	.1									3.0	4.6	4.0
(E) 080-100	1.3	1.2										2.5	4.6	4.0
110-130	1.4	.8	.8									2.9	5.9	5.0
140-160	2.9	3.4	2.5	.2	.1	.2						9.4	7.7	7.0
(S) 170-190	4.3	5.5	2.2	1.0	.3							13.2	7.3	7.0
200-220	1.3	.5										1.8	3.1	2.0
230-250	1.0	.3	.4	.1								1.8	6.2	4.0
(W) 260-280	1.4	.5	.2	.3	.2	.1						2.8	7.8	4.5
290-310	1.7	1.2	1.5	.4	1.0	1.0	.4					7.2	13.7	12.0
320-340	2.0	3.2	5.4	6.6	4.6	1.4	1.0	.3				24.5	15.6	15.0
VARIABLE														
CALM	////////////////////////////////////											7.1	////////////////////////////////	
TOTALS	23.4	23.7	20.9	11.7	8.1	3.3	1.4	.3				100.0	9.9	9.0
TOTAL NUMBER OF OBSERVATIONS 930														

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: DEC HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	2.9	4.0	5.3	2.9	1.1	.2	.1					16.5	10.9	11.0
020-040	.8	1.7	.9	.2	.1							3.7	8.3	8.0
050-070	.8	.8	.1									1.6	5.2	5.0
(E) 080-100	1.3	.3	.1									1.7	4.1	3.5
110-130	1.4	1.1	.3									2.8	5.8	4.5
140-160	4.2	4.0	2.0	.4		.1						10.8	6.7	6.0
(S) 170-190	4.2	4.2	1.3	.4		.1	.1					10.3	6.6	6.0
200-220	3.0	1.2										4.2	3.7	3.0
230-250	1.3	.3	.2									1.8	5.1	4.0
(W) 260-280	1.9	.9	.3	.1								3.2	4.8	3.5
290-310	2.5	1.8	1.4	.9	.6	.1	.1					7.4	9.6	8.0
320-340	1.7	4.1	8.0	4.4	3.0	1.2	.9	.5				23.8	14.7	14.0
VARIABLE														
CALM	////////////////////////////////////											12.3	////////	
TOTALS	26.0	24.4	19.9	9.3	4.8	1.7	1.2	.5				100.0	8.4	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: DEC HOURS: 18-20

		WIND SPEED IN KNOTS													
DIRECTION (DEGREES)		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010		.8	2.8	2.7	1.9	.5	.3	.3					9.4	12.6	12.0
020-040		.9	.5	1.1									2.5	7.9	8.0
050-070		.4	.4										.9	4.8	4.5
(E) 080-100		.5	.2	.1									.9	4.3	2.5
110-130		1.0	.9	.2									2.0	4.9	5.0
140-160		3.8	2.4	1.0	.1	.2	.1						7.5	6.4	4.5
(S) 170-190		3.0	2.9	.8	.1								6.8	5.6	5.0
200-220		3.4	.6										4.1	3.0	3.0
230-250		4.5	1.6	.2	.2								6.6	4.1	3.0
(W) 260-280		6.1	1.9			.1							8.2	3.6	3.0
290-310		5.5	2.9	1.3	.8	1.1							11.5	7.4	5.0
320-340		2.9	4.9	7.1	3.7	3.7	.4	1.1					23.8	13.0	12.0
VARIABLE															
CALM		////////////////////////////////////											16.0	////////////////////////////////	
TOTALS		32.8	22.0	14.5	6.8	5.6	.8	1.4					100.0	7.1	6.0
TOTAL NUMBER OF OBSERVATIONS 930															



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: DEC HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL &	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	.5	2.9	3.9	1.9	.8	.4	.1					10.5	12.6	12.0
020-040	.4	1.0	.6	.1								2.2	8.2	8.0
050-070	.4	.3										.8	4.6	4.0
(E) 080-100	.6	.8										1.4	4.7	5.0
110-130	1.2	1.1	.1	.1								2.5	5.2	5.0
140-160	1.8	1.9	.9	.2	.3	.1						5.3	7.9	7.0
(S) 170-190	3.5	2.7	1.2	.1	.2							7.7	6.1	5.0
200-220	2.3	.4	.1									2.8	3.7	3.0
230-250	5.3	1.3	.3									6.9	3.7	3.0
(W) 260-280	8.2	2.5	.1	.1								10.9	3.5	3.0
290-310	7.0	2.8	1.7	.6	.5	.1	.1					12.9	6.8	4.0
320-340	2.3	4.8	4.7	4.6	3.7	1.3	.3	.1				21.8	13.7	13.0
VARIABLE														
CALM	////////////////////////////////////											14.4	////////	
TOTALS	33.5	22.5	13.6	7.7	5.5	1.9	.5	.1				100.0	7.2	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: DEC HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND	MEDIAN WIND
	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65			
(N) 350-010	1.4	3.1	4.3	2.4	1.1	.3	.1					12.6	11.9	12.0
020-040	.8	1.0	.7	.2	.0							2.7	7.7	7.0
050-070	.7	.7	.1									1.5	4.8	4.0
(E) 080-100	.7	.4	.1									1.1	4.5	4.0
110-130	1.2	.9	.3	.0								2.4	5.3	4.0
140-160	2.2	2.3	1.2	.2	.1	.1						6.0	7.1	6.0
(S) 170-190	3.1	3.4	1.2	.3	.1	.0	.0					8.2	6.6	6.0
200-220	2.4	.7	.0	.0								3.1	3.4	3.0
230-250	3.5	1.0	.2	.1								4.7	3.8	3.0
(W) 260-280	6.2	1.8	.2	.1	.1	.0						8.4	3.8	3.0
290-310	5.4	2.4	1.3	.9	.6	.4	.1					11.0	8.0	5.0
320-340	2.8	4.4	5.6	4.7	4.0	1.2	.7	.2				23.7	14.0	13.0
VARIABLE														
CALM	////////////////////////////////////											14.4	////////	
TOTALS	30.4	22.1	15.2	8.9	6.0	2.0	.9	.2				100.0	7.7	7.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: DEC HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
AND/OR  
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

		WIND SPEED IN KNOTS													
DIRECTION		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(DEGREES)												%	WIND	WIND	
(N)	350-010	1.3	6.8	10.2	4.5	2.7	.7	.6					26.7	12.8	12.0
	020-040	2.4	4.7	2.4	.4	.1							10.0	8.0	8.0
	050-070	1.6	3.7	.4									5.6	6.1	6.0
(E)	080-100	.4	1.8	.6									2.8	7.1	6.5
	110-130	1.8	4.0	1.7									7.5	6.8	6.0
	140-160	1.4	1.3	1.8	.3	.1	.3						5.2	9.7	9.0
(S)	170-190	.8	2.8	1.1	.1	.4	.1	.1					5.6	9.7	8.0
	200-220	.6	.3										.8	3.2	2.0
	230-250	.1	.1										.3	4.0	4.0
(W)	260-280	.8	.1	.1									1.1	4.1	3.0
	290-310	.7	.1	.4	.1	.4		.1					2.0	12.4	12.0
	320-340	.7	2.4	5.2	5.4	6.6	2.8	1.0	.1				24.3	17.5	18.0
VARIABLE															
CALM		////////////////////////////////////										7.9	////////////////////////////////		
TOTALS		12.6	28.1	23.9	10.8	10.3	3.9	1.8	.1				100.0	10.9	10.0

TOTAL NUMBER OF OBSERVATIONS 708

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: ALL HOURS: ALL

		WIND SPEED IN KNOTS													
DIRECTION		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(DEGREES)													%	WIND	WIND
(N) 350-010		1.8	4.0	3.9	1.8	.7	.1	.0	.0				12.4	10.4	10.0
020-040		1.4	1.9	.7	.1	.0							4.1	6.4	6.0
050-070		1.2	1.1	.2	.0	.0							2.6	5.4	5.0
(E) 080-100		1.2	1.3	.3	.1	.0							2.9	5.8	5.0
110-130		1.5	2.3	1.1	.2	.0	.0						5.1	7.1	7.0
140-160		2.5	4.6	3.1	1.0	.2	.0	.0					11.5	8.5	8.0
(S) 170-190		2.9	3.8	2.1	1.0	.3	.0	.0					10.1	8.2	7.0
200-220		2.4	1.0	.2	.1	.0	.0						3.6	4.3	4.0
230-250		2.7	.8	.2	.0	.0	.0						3.7	4.0	3.0
(W) 260-280		4.3	1.4	.2	.1	.0	.0	.0					6.0	4.0	3.0
290-310		3.8	1.9	.9	.5	.3	.2	.1	.0				7.7	7.3	5.0
320-340		2.2	4.8	5.1	3.8	2.7	1.1	.4	.1	.0			20.3	13.3	12.0
VARIABLE															
CALM		////////////////////////////////////											10.0	////////	
TOTALS		27.9	28.9	18.0	8.7	4.2	1.4	.5	.1				100.0	7.8	7.0

TOTAL NUMBER OF OBSERVATIONS: 87641

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: ALL HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).

AND/OR

VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

		WIND SPEED IN KNOTS													
DIRECTION		1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(DEGREES)												%	WIND	WIND	
(N) 350-010		2.0	6.9	8.8	4.1	1.4	.3	.2					23.6	11.5	11.0
020-040		2.3	4.9	2.2	.4	.0							9.9	7.5	7.0
050-070		2.2	3.2	1.0	.1	.0							6.5	6.5	6.0
(E) 080-100		1.4	3.0	1.1	.3								5.7	7.3	7.0
110-130		1.9	4.1	2.5	.5	.1							9.1	8.0	8.0
140-160		2.1	4.1	3.4	1.1	.3	.0						10.9	8.9	8.0
(S) 170-190		1.3	1.6	1.1	.2	.2	.0	.0					4.4	8.2	7.0
200-220		.5	.2	.0									.7	3.7	2.0
230-250		.1	.0										.1	2.9	3.0
(W) 260-280		.4	.0	.0									.5	3.9	3.0
290-310		.6	.4	.3	.2	.1	.2	.0	.0				1.9	11.0	8.0
320-340		1.2	3.3	5.5	4.5	4.0	2.1	.9	.2	.1			21.8	16.1	16.0
VARIABLE															
CALM		////////////////////////////////////										4.7	////////////////////////////////		
TOTALS		16.0	31.7	25.9	11.4	6.1	2.6	1.1	.2	.1			100.0	10.1	9.0

TOTAL NUMBER OF OBSERVATIONS: 6353



PPPPPPPP	AAAAAA	RRRRRRRR	TTTTTTTTTT	DDDDDDDD
PPPPPPPP	AAAAAAAA	RRRRRRRR	TTTTTTTTTT	DDDDDDDD
PP PP	AA AA	RR RR	TT	DD DD
PP PP	AA AA	RR RR	TT	DD DD
PPPPPPPP	AA AA	RRRRRRRR	TT	DD DD
PPPPPPPP	AAAAAAAAAA	RRRRRRRR	TT	DD DD
PP	AAAAAAAAAA	RR RR	TT	DD DD
PP	AA AA	RR RR	TT	DD DD
PP	AA AA	RR RR	TT	DDDDDDDD
PP	AA AA	RR RR	TT	DDDDDDDD

PART D

CEILING VERSUS VISIBILITY AND SKY COVER SUMMARIES

CEILING VS VISIBILITY--PERCENT OCCURRENCE FREQUENCY (POF).

CREATED FROM HOURLY OBSERVATIONS, THIS SUMMARY IS A BIVARIATE DISTRIBUTION OF PERCENTAGE FREQUENCY BY CLASSES OF CEILING (FROM ZERO FEET TO 20,000 FEET-- "NO CEILING" IS A SEPARATE CLASS) VERSUS VISIBILITY CLASSES (FROM ZERO MILES (METERS) TO GREATER THAN OR EQUAL TO 7 STATUTE MILES (11,200 METERS)). THE TABLES SUMMARIZE THE DATA AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

BECAUSE OF THE CUMULATIVE NATURE OF THESE SUMMARIES, IT IS POSSIBLE TO DETERMINE THE PERCENTAGE OCCURRENCE FREQUENCY (POF) FOR ANY GIVEN CEILING AND/OR VISIBILITY LIMIT(S), EITHER SEPARATELY OR IN ANY COMBINATION. TOTALS PROGRESS FROM RIGHT TO LEFT AND FROM BOTTOM TO TOP. TO DETERMINE CEILING ALONE, REFER TO THE EXTREME RIGHT-HAND COLUMN (ZERO VISIBILITY). TO DETERMINE VISIBILITY ALONE, REFER TO THE BOTTOM ROW (ZERO CEILINGS). DETERMINE THE POF THAT MEETS OR EXCEEDS ANY GIVEN SET OF MAXIMA BY READING THE VALUE AT THE INTERSECTION OF THE APPROPRIATE CEILING ROW AND VISIBILITY COLUMN.

NOTE 1: IN JANUARY 1968, METAR STATIONS BEGAN REPORTING VISIBILITIES TO 6 STATUTE MILES OR 9000 METERS. VALUES EXCEEDING 9000 METERS ARE REPORTED AS "9999."

NOTE 2: FOR OVERSEAS CIVILIAN STATIONS REPORTING "CAVOK", ALL CEILINGS GREATER THAN 5000 FEET APPEAR IN THE 5000 FEET CLASS.

CONVERSIONS: 1 STATUTE MILE = 1,609.344 METERS = .868391 NAUTICAL MILES.  
FOR CONVENIENCE, THE CONVERSION OFTEN USED IS 1 STATUTE MILE = 1,600 METERS.

SKY COVER--PERCENT OCCURRENCE FREQUENCY.

ALSO CREATED FROM HOURLY OBSERVATIONS, THIS SUMMARY GIVES PERCENTAGE OCCURRENCE FREQUENCY (POF) OF SKY COVER IN EIGHTHS FOR SYNOPTIC STATIONS, BUT AS CLEAR, SCATTERED, BROKEN, OVERCAST, PARTIALLY OBSCURED, OR TOTALLY OBSCURED FOR AIRWAYS STATIONS. FOR AIRWAYS STATIONS, THIS SUMMARY ALSO GIVES POF FOR SKY COVER GREATER THAN ONE-HALF (I.E., 6/10). DATA IS SUMMARIZED THE SAME AS FOR PREVIOUS TABLE.

NOTE 1. THESE SUMMARIES ARE NOT AVAILABLE FOR METAR REPORTING STATIONS.



NOTE 2. AIRWAYS STATIONS THAT HAVE REPORTED IN SYNOPTIC CODE HAVE HAD THEIR  
SYNOPTIC SKY COVER REPORTS CONVERTED AS FOLLOWS:

0/8.....CLEAR  
1/8 THRU 4/8.....SCATTERED  
5/8 THRU 7/8.....BROKEN  
8/8.....OVERCAST

NOTE 3. "PARTIAL OBSCURATION" IS A SEPARATE CATEGORY NOT INCLUDED IN  
COMPUTATION OF "GREATER THAN 1/2" PERCENTAGES. "TOTAL OBSCURATIONS,"  
HOWEVER, ARE INCLUDED.

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JAN HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	61.8	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.5	62.5	62.5
GE 20000	67.1	67.5	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.8	67.8	67.8
GE 18000	67.6	68.1	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.4	68.4	68.4
GE 16000	68.2	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.9	68.9	68.9
GE 14000	68.4	68.8	68.8	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	69.1	69.1	69.1
GE 12000	69.0	69.5	69.5	69.6	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.9	69.9	69.9
GE 10000	71.5	71.9	71.9	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.4	72.4	72.4
GE 9000	72.5	72.9	72.9	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.3	73.3	73.3
GE 8000	75.8	76.2	76.2	76.3	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.7	76.7	76.7
GE 7000	76.5	76.9	76.9	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.3	77.3	77.3
GE 6000	77.7	78.2	78.2	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.6	78.6	78.6
GE 5000	79.4	79.8	79.8	79.9	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.4	80.4	80.4
GE 4500	80.0	80.4	80.4	80.5	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	81.1	81.1	81.1
GE 4000	82.7	83.1	83.2	83.3	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.9	83.9	83.9
GE 3500	83.7	84.1	84.2	84.3	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.8	84.8	84.8
GE 3000	84.7	85.2	85.5	85.7	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.2	86.2	86.5	86.5	86.5
GE 2500	85.4	85.8	86.1	86.3	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.9	86.9	87.1	87.1	87.1
GE 2000	87.6	88.1	88.6	88.8	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.4	89.4	89.6	89.6	89.6
GE 1800	88.3	88.7	89.2	89.5	89.9	89.9	89.9	89.9	89.9	89.9	89.9	90.0	90.0	90.2	90.2	90.2
GE 1500	88.9	89.4	89.9	90.1	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.6	90.6	90.9	90.9	90.9
GE 1200	90.1	90.5	91.1	91.3	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.8	91.8	92.0	92.0	92.0
GE 1000	90.5	91.0	91.5	91.7	92.4	92.4	92.6	92.6	92.6	92.7	92.7	92.8	92.8	93.0	93.0	93.0
GE 900	90.9	91.3	91.8	92.0	92.7	92.7	92.9	92.9	92.9	93.0	93.0	93.1	93.1	93.3	93.3	93.3
GE 800	91.9	92.4	92.9	93.1	93.8	93.8	94.0	94.0	94.0	94.1	94.1	94.2	94.2	94.4	94.4	94.4
GE 700	92.7	93.1	93.7	93.9	94.5	94.5	94.7	94.7	94.7	94.8	94.8	94.9	94.9	95.2	95.2	95.2
GE 600	92.9	93.3	93.9	94.1	94.7	94.7	94.9	94.9	94.9	95.1	95.1	95.3	95.3	95.5	95.5	95.5
GE 500	93.4	93.9	94.4	94.6	95.3	95.3	95.5	95.5	95.5	95.6	95.6	95.8	95.8	96.0	96.1	96.1
GE 400	94.1	94.5	95.2	95.5	96.1	96.1	96.3	96.3	96.3	96.5	96.5	96.8	96.8	97.0	97.1	97.1
GE 300	94.2	94.6	95.3	95.6	96.2	96.2	96.5	96.5	96.5	97.4	97.4	97.7	97.7	98.0	98.3	98.3
GE 200	94.2	94.6	95.3	95.6	96.6	96.6	96.9	96.9	96.9	98.0	98.0	98.3	98.5	98.7	99.0	99.0
GE 100	94.2	94.6	95.3	95.6	96.6	96.6	96.9	96.9	96.9	98.1	98.1	98.4	98.6	98.8	99.7	100.0
GE 000	94.2	94.6	95.3	95.6	96.6	96.6	96.9	96.9	96.9	98.1	98.1	98.4	98.6	98.8	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JAN HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	59.1	59.5	59.7	59.7	59.9	59.9	59.9	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
GE 20000	64.6	64.9	65.2	65.2	65.5	65.5	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
GE 18000	65.2	65.5	65.7	65.7	66.0	66.0	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
GE 16000	65.3	65.6	65.8	65.8	66.1	66.1	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
GE 14000	65.7	66.0	66.2	66.2	66.6	66.6	66.6	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
GE 12000	66.9	67.5	67.7	67.7	68.1	68.1	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 10000	70.1	70.8	71.0	71.0	71.3	71.3	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
GE 9000	70.8	71.4	71.6	71.6	71.9	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
GE 8000	73.2	73.9	74.1	74.1	74.4	74.4	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
GE 7000	74.3	74.9	75.2	75.2	75.5	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
GE 6000	76.2	76.9	77.1	77.1	77.5	77.5	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 5000	78.5	79.1	79.4	79.4	79.8	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
GE 4500	80.1	80.6	81.0	81.0	81.4	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
GE 4000	81.9	82.7	82.9	82.9	83.5	83.5	83.5	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
GE 3500	82.6	83.4	83.8	83.8	84.5	84.5	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
GE 3000	83.8	84.6	85.1	85.1	85.9	85.9	85.9	86.0	86.0	86.0	86.1	86.1	86.2	86.2	86.2	86.2
GE 2500	84.5	85.4	85.8	85.8	86.7	86.7	86.7	86.8	86.8	86.8	86.9	86.9	87.0	87.0	87.0	87.0
GE 2000	85.7	86.7	87.4	87.4	88.3	88.3	88.3	88.4	88.4	88.4	88.5	88.5	88.6	88.6	88.6	88.6
GE 1800	86.2	87.2	88.0	88.0	88.8	88.8	88.8	88.9	88.9	88.9	89.0	89.0	89.1	89.1	89.1	89.1
GE 1500	86.3	87.3	88.2	88.2	89.0	89.0	89.0	89.1	89.1	89.1	89.2	89.2	89.4	89.4	89.4	89.4
GE 1200	87.4	88.4	89.5	89.5	90.4	90.4	90.4	90.5	90.5	90.5	90.6	90.6	90.8	90.8	90.8	90.8
GE 1000	88.0	88.9	90.0	90.0	91.0	91.0	91.0	91.1	91.1	91.1	91.2	91.2	91.3	91.3	91.3	91.3
GE 900	88.3	89.2	90.4	90.4	91.4	91.4	91.4	91.7	91.7	91.7	91.8	91.8	91.9	91.9	91.9	91.9
GE 800	88.5	89.5	90.8	90.8	91.7	91.7	91.7	92.0	92.0	92.2	92.3	92.3	92.4	92.4	92.4	92.4
GE 700	88.8	89.8	91.1	91.1	92.0	92.0	92.2	92.6	92.6	92.7	92.8	92.8	93.0	93.0	93.0	93.0
GE 600	89.4	90.3	91.6	91.6	92.6	92.6	92.8	93.2	93.2	93.3	93.5	93.8	94.0	94.0	94.0	94.0
GE 500	90.1	91.1	92.4	92.4	93.3	93.3	93.5	94.0	94.0	94.1	94.3	94.5	94.7	94.7	94.9	95.1
GE 400	90.5	91.6	92.9	93.1	94.1	94.1	94.4	94.8	94.8	94.9	95.3	95.5	95.7	95.7	95.9	96.0
GE 300	90.8	91.8	93.1	93.5	94.5	94.5	94.9	95.6	95.6	96.2	96.7	96.9	97.1	97.1	97.5	97.6
GE 200	90.9	91.9	93.2	93.7	94.7	94.7	95.3	95.9	95.9	96.6	97.2	97.5	98.1	98.1	98.5	98.6
GE 100	90.9	91.9	93.2	93.7	94.7	94.7	95.3	95.9	95.9	96.8	97.4	97.7	98.4	98.4	99.2	99.8
GE 000	90.9	91.9	93.2	93.7	94.7	94.7	95.3	95.9	95.9	96.8	97.4	97.7	98.4	98.4	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JAN HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	55.5	55.5	55.7	55.9	56.0	56.0	56.0	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
GE 20000	62.6	62.6	62.8	63.0	63.1	63.1	63.1	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
GE 18000	63.1	63.1	63.3	63.5	63.7	63.7	63.7	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 16000	63.2	63.2	63.4	63.7	63.8	63.8	63.8	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
GE 14000	63.7	63.7	63.9	64.1	64.2	64.2	64.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
GE 12000	65.6	65.6	65.8	66.0	66.1	66.1	66.1	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
GE 10000	70.1	70.1	70.3	70.5	70.6	70.6	70.6	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
GE 9000	71.0	71.0	71.2	71.4	71.5	71.5	71.5	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
GE 8000	74.2	74.2	74.4	74.7	74.7	74.7	74.7	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
GE 7000	76.0	76.0	76.2	76.5	76.6	76.6	76.6	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
GE 6000	77.2	77.3	77.5	77.7	78.0	78.0	78.0	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
GE 5000	78.8	78.9	79.2	79.5	79.8	79.8	79.8	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
GE 4500	79.5	79.6	79.9	80.1	80.4	80.4	80.4	80.6	80.6	80.6	80.6	80.8	80.8	80.8	80.8	80.8
GE 4000	82.3	82.5	82.9	83.2	83.5	83.5	83.5	83.8	83.8	83.8	83.8	83.9	83.9	83.9	83.9	83.9
GE 3500	83.1	83.3	83.8	84.1	84.4	84.4	84.4	84.6	84.6	84.6	84.6	84.7	84.7	84.7	84.7	84.7
GE 3000	84.8	85.1	85.7	86.2	86.6	86.6	86.6	86.8	86.8	86.8	86.8	86.9	86.9	86.9	86.9	86.9
GE 2500	85.4	85.6	86.2	86.8	87.1	87.1	87.1	87.3	87.3	87.3	87.3	87.4	87.4	87.4	87.4	87.4
GE 2000	86.3	86.6	87.4	88.1	88.4	88.4	88.4	88.7	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.8
GE 1800	86.8	87.0	87.8	88.5	88.8	88.8	88.8	89.1	89.1	89.1	89.1	89.2	89.2	89.2	89.2	89.2
GE 1500	87.5	87.8	88.8	89.5	89.8	89.8	89.8	90.1	90.1	90.1	90.1	90.2	90.2	90.2	90.2	90.2
GE 1200	88.3	88.6	89.6	90.4	90.8	90.8	90.8	91.1	91.1	91.1	91.1	91.2	91.2	91.2	91.2	91.2
GE 1000	89.2	89.6	90.5	91.4	91.7	91.7	91.7	92.0	92.0	92.0	92.0	92.2	92.2	92.2	92.2	92.2
GE 900	89.5	89.8	90.8	91.6	91.9	91.9	91.9	92.3	92.3	92.3	92.4	92.4	92.5	92.5	92.5	92.5
GE 800	89.8	90.1	91.1	91.9	92.3	92.3	92.4	92.7	92.7	93.0	93.0	93.1	93.1	93.1	93.1	93.1
GE 700	89.9	90.2	91.3	92.3	92.6	92.6	92.7	93.0	93.0	93.3	93.3	93.4	93.5	93.7	93.8	93.9
GE 600	90.2	90.5	91.6	92.6	92.9	92.9	93.1	93.4	93.4	93.8	93.8	94.0	94.1	94.2	94.3	94.4
GE 500	90.5	90.9	91.9	92.9	93.4	93.4	93.7	94.0	94.0	94.3	94.5	94.7	94.8	94.9	95.2	95.4
GE 400	91.0	91.3	92.4	93.3	93.9	93.9	94.1	94.4	94.4	94.9	95.2	95.4	95.5	95.6	95.8	96.1
GE 300	91.4	91.7	92.9	93.9	94.5	94.5	94.7	95.2	95.2	96.1	96.3	96.7	96.8	96.9	97.1	97.5
GE 200	91.5	91.8	93.0	94.0	94.7	94.7	95.1	95.6	95.6	96.6	96.8	97.1	97.2	97.4	97.8	98.9
GE 100	91.5	91.8	93.0	94.0	94.7	94.7	95.1	95.7	95.7	96.7	97.1	97.4	97.5	97.8	98.4	99.8
GE 000	91.5	91.8	93.0	94.0	94.7	94.7	95.1	95.7	95.7	96.7	97.1	97.4	97.5	97.8	98.4	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JAN HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	53.1	53.1	53.1	53.4	53.9	53.9	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
GE 20000	63.9	63.9	63.9	64.2	64.6	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
GE 18000	64.1	64.1	64.1	64.4	64.8	64.8	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
GE 16000	64.2	64.2	64.2	64.5	64.9	64.9	64.9	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
GE 14000	65.3	65.3	65.3	65.6	66.0	66.0	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
GE 12000	67.5	67.5	67.5	67.8	68.3	68.3	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
GE 10000	72.2	72.2	72.2	72.5	72.9	72.9	72.9	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
GE 9000	73.3	73.3	73.3	73.7	74.2	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
GE 8000	78.2	78.2	78.3	78.6	79.2	79.2	79.2	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
GE 7000	80.0	80.0	80.1	80.4	81.1	81.1	81.1	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
GE 6000	80.9	80.9	81.0	81.3	81.9	81.9	81.9	82.2	82.2	82.2	82.2	82.2	82.3	82.3	82.3	82.3
GE 5000	81.6	81.6	81.7	82.0	82.7	82.7	82.7	82.9	82.9	82.9	82.9	82.9	83.0	83.0	83.0	83.0
GE 4500	81.9	81.9	82.0	82.4	83.0	83.0	83.0	83.2	83.2	83.2	83.2	83.2	83.3	83.3	83.3	83.3
GE 4000	83.9	83.9	84.0	84.3	84.9	84.9	84.9	85.2	85.2	85.2	85.2	85.2	85.3	85.3	85.3	85.3
GE 3500	84.5	84.5	84.6	85.1	85.7	85.7	85.7	85.9	85.9	85.9	85.9	85.9	86.0	86.0	86.0	86.0
GE 3000	85.2	85.3	85.5	86.2	87.0	87.0	87.4	87.6	87.6	87.6	87.8	87.8	88.1	88.1	88.1	88.1
GE 2500	85.4	85.5	85.8	86.8	87.5	87.5	88.0	88.2	88.2	88.2	88.4	88.4	88.6	88.6	88.6	88.6
GE 2000	86.2	86.6	87.1	88.1	89.0	89.0	89.5	89.9	89.9	89.9	90.2	90.2	90.4	90.4	90.4	90.4
GE 1800	86.3	86.7	87.2	88.5	89.6	89.6	90.0	90.4	90.4	90.4	90.8	90.8	91.0	91.0	91.0	91.0
GE 1500	86.9	87.2	87.7	89.0	90.2	90.2	90.6	91.2	91.2	91.3	91.6	91.6	91.8	91.8	91.8	91.8
GE 1200	87.2	87.5	88.1	89.4	90.5	90.5	91.2	91.8	91.8	92.0	92.4	92.4	92.7	92.7	92.7	92.7
GE 1000	87.4	87.7	88.3	89.7	90.9	90.9	91.5	92.2	92.2	92.5	92.8	92.8	93.1	93.1	93.1	93.1
GE 900	87.4	87.7	88.3	89.7	90.9	90.9	91.5	92.2	92.2	92.5	92.9	92.9	93.2	93.2	93.2	93.2
GE 800	87.4	87.8	88.5	90.0	91.3	91.3	91.9	92.6	92.6	92.9	93.3	93.3	93.7	93.7	93.7	93.8
GE 700	87.4	87.8	88.6	90.1	91.5	91.5	92.3	92.9	92.9	93.2	93.7	93.7	94.0	94.0	94.0	94.2
GE 600	87.7	88.3	89.1	90.8	92.2	92.2	92.9	93.5	93.5	94.0	94.4	94.7	95.1	95.1	95.1	95.3
GE 500	87.7	88.3	89.4	91.1	92.5	92.6	93.5	94.3	94.3	94.7	95.5	95.8	96.1	96.1	96.1	96.3
GE 400	88.0	88.5	89.6	91.4	92.9	93.0	94.1	94.8	94.8	95.3	96.0	96.3	97.0	97.0	97.0	97.2
GE 300	88.0	88.5	89.6	91.4	93.0	93.1	94.3	95.1	95.1	96.0	96.8	97.1	97.7	97.7	97.7	98.1
GE 200	88.0	88.5	89.6	91.4	93.0	93.1	94.3	95.1	95.1	96.2	97.3	97.6	98.4	98.4	98.5	99.4
GE 100	88.0	88.5	89.6	91.4	93.0	93.1	94.3	95.1	95.1	96.2	97.4	97.8	98.6	98.7	98.8	99.9
GE 000	88.0	88.5	89.6	91.4	93.0	93.1	94.3	95.1	95.1	96.2	97.4	97.8	98.6	98.7	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JAN HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	56.0	56.5	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
GE 20000	65.7	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
GE 18000	65.9	66.3	66.5	66.5	66.5	66.5	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
GE 16000	66.1	66.6	66.7	66.7	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
GE 14000	66.8	67.2	67.3	67.3	67.3	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
GE 12000	68.4	68.8	68.9	68.9	68.9	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
GE 10000	72.3	72.7	72.8	72.8	72.8	72.8	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
GE 9000	73.4	73.9	74.0	74.0	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
GE 8000	78.0	78.4	78.6	78.6	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
GE 7000	79.8	80.2	80.5	80.5	80.5	80.5	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
GE 6000	80.5	81.0	81.3	81.3	81.3	81.3	81.5	81.5	81.5	81.5	81.6	81.6	81.6	81.6	81.6	81.6
GE 5000	81.6	82.0	82.5	82.7	82.7	82.7	82.9	82.9	82.9	82.9	83.0	83.0	83.0	83.0	83.0	83.0
GE 4500	81.7	82.2	82.6	82.8	82.8	82.8	83.0	83.0	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.1
GE 4000	84.2	84.7	85.2	85.5	85.5	85.5	85.7	85.7	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.8
GE 3500	84.8	85.4	85.8	86.1	86.1	86.1	86.3	86.3	86.3	86.3	86.5	86.5	86.5	86.5	86.5	86.5
GE 3000	86.9	87.6	88.1	88.6	88.6	88.6	88.9	88.9	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0
GE 2500	87.4	88.2	88.7	89.2	89.4	89.4	89.7	89.7	89.7	89.8	89.9	89.9	89.9	89.9	89.9	89.9
GE 2000	88.2	88.9	89.6	90.3	90.4	90.4	90.8	90.8	90.9	91.2	91.4	91.5	91.5	91.6	91.6	91.7
GE 1800	88.3	89.0	89.8	90.6	90.8	90.8	91.1	91.2	91.2	91.5	91.7	91.8	91.8	91.9	91.9	92.0
GE 1500	88.6	89.4	90.2	91.3	91.6	91.6	92.0	92.2	92.2	92.5	92.7	92.8	92.8	92.9	92.9	93.0
GE 1200	88.7	89.5	90.3	91.4	91.7	91.7	92.2	92.3	92.3	92.6	92.9	93.0	93.0	93.1	93.1	93.2
GE 1000	88.9	89.7	90.5	91.6	91.9	91.9	92.4	92.5	92.5	92.8	93.2	93.3	93.3	93.4	93.4	93.5
GE 900	88.9	89.7	90.5	91.6	91.9	91.9	92.4	92.5	92.5	92.8	93.2	93.3	93.3	93.4	93.5	93.7
GE 800	89.1	90.1	91.3	92.5	92.9	92.9	93.3	93.4	93.4	93.8	94.2	94.3	94.3	94.4	94.5	94.7
GE 700	89.1	90.1	91.3	92.5	92.9	92.9	93.3	93.4	93.4	93.8	94.2	94.3	94.3	94.4	94.6	94.8
GE 600	89.4	90.4	91.7	92.9	93.3	93.3	94.1	94.2	94.2	94.5	94.9	95.2	95.2	95.3	95.5	95.7
GE 500	89.4	90.5	91.9	93.1	93.5	93.5	94.3	94.4	94.4	95.1	95.6	95.8	95.8	95.9	96.1	96.6
GE 400	89.5	90.9	92.4	94.2	94.6	94.6	95.5	95.6	95.6	96.2	96.8	97.0	97.0	97.1	97.3	97.7
GE 300	89.5	90.9	92.4	94.2	94.7	94.7	95.8	96.0	96.0	96.7	97.2	97.4	97.4	97.5	97.8	98.4
GE 200	89.5	90.9	92.4	94.2	94.7	94.7	95.8	96.0	96.0	97.0	97.6	98.0	98.0	98.1	98.4	99.2
GE 100	89.5	90.9	92.4	94.2	94.7	94.7	95.8	96.1	96.1	97.2	97.8	98.3	98.3	98.4	98.8	99.7
GE 000	89.5	90.9	92.4	94.2	94.7	94.7	95.8	96.1	96.1	97.2	97.8	98.3	98.3	98.5	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 230

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JAN HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	59.9	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
GE 20000	68.6	68.8	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
GE 18000	68.7	68.9	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
GE 16000	69.0	69.2	69.4	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
GE 14000	69.7	69.9	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
GE 12000	71.3	71.5	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
GE 10000	75.4	75.6	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
GE 9000	76.2	76.5	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
GE 8000	80.2	80.4	80.5	80.9	81.1	81.1	81.1	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2
GE 7000	81.5	81.7	81.8	82.2	82.5	82.5	82.5	82.5	82.5	82.7	82.9	82.9	83.0	83.0	83.1	83.1
GE 6000	82.6	82.8	82.9	83.3	83.7	83.7	83.7	83.7	83.7	83.9	84.1	84.1	84.2	84.2	84.3	84.3
GE 5000	83.9	84.1	84.4	84.9	85.4	85.4	85.5	85.5	85.5	85.7	86.0	86.0	86.1	86.1	86.2	86.2
GE 4500	84.5	84.7	85.1	85.6	86.0	86.0	86.1	86.1	86.1	86.3	86.7	86.7	86.8	86.8	86.9	86.9
GE 4000	85.9	86.1	86.5	87.0	87.4	87.4	87.5	87.5	87.5	87.7	88.1	88.1	88.2	88.2	88.3	88.3
GE 3500	86.2	86.5	86.8	87.3	87.7	87.7	87.8	87.8	87.8	88.1	88.4	88.4	88.5	88.5	88.6	88.6
GE 3000	87.2	87.4	87.7	88.3	88.8	88.9	89.2	89.4	89.4	89.6	89.9	89.9	90.0	90.0	90.1	90.1
GE 2500	87.7	88.0	88.4	89.0	89.6	89.7	90.0	90.1	90.1	90.3	90.6	90.6	90.8	90.8	90.9	90.9
GE 2000	88.1	88.3	89.1	90.1	90.6	90.8	91.1	91.2	91.2	91.4	91.8	91.8	91.9	91.9	92.0	92.0
GE 1800	88.6	88.8	89.7	90.6	91.2	91.3	91.6	91.7	91.7	91.9	92.4	92.4	92.5	92.5	92.6	92.6
GE 1500	89.4	89.6	90.5	91.6	92.3	92.4	92.9	93.0	93.0	93.2	93.8	93.8	93.9	93.9	94.0	94.0
GE 1200	89.7	89.9	90.9	91.9	92.6	92.7	93.2	93.3	93.3	93.5	94.1	94.1	94.2	94.2	94.3	94.3
GE 1000	89.9	90.1	91.1	92.2	92.9	93.0	93.5	93.7	93.7	93.9	94.4	94.4	94.8	94.8	94.9	94.9
GE 900	89.9	90.1	91.1	92.2	92.9	93.0	93.5	93.7	93.7	93.9	94.4	94.5	94.9	94.9	95.1	95.1
GE 800	90.2	90.6	91.7	92.8	93.7	93.8	94.4	94.5	94.5	94.7	95.3	95.4	95.8	95.8	95.9	95.9
GE 700	90.3	90.8	91.9	93.0	93.9	94.0	94.7	94.8	94.8	95.1	95.6	95.7	96.1	96.1	96.2	96.2
GE 600	90.8	91.2	92.5	93.5	94.4	94.5	95.4	95.6	95.6	95.8	96.3	96.5	96.9	96.9	97.0	97.0
GE 500	90.8	91.3	92.6	93.7	94.5	94.6	95.5	95.8	95.9	96.1	96.8	96.9	97.3	97.3	97.4	97.5
GE 400	91.0	91.5	92.9	94.1	95.3	95.4	96.2	96.6	96.7	97.0	97.6	97.8	98.3	98.3	98.4	98.5
GE 300	91.1	91.6	93.0	94.2	95.6	95.7	96.9	97.2	97.3	97.6	98.3	98.5	98.9	98.9	99.0	99.1
GE 200	91.1	91.6	93.0	94.2	95.6	95.7	97.0	97.4	97.5	97.8	98.5	98.7	99.1	99.1	99.2	99.5
GE 100	91.1	91.6	93.0	94.2	95.6	95.7	97.0	97.4	97.5	98.0	98.6	98.8	99.4	99.4	99.7	100.0
GE 000	91.1	91.6	93.0	94.2	95.6	95.7	97.0	97.4	97.5	98.0	98.6	98.8	99.4	99.4	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JAN HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	60.0	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
GE 20000	67.1	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
GE 18000	67.4	67.6	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
GE 16000	67.7	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 14000	68.1	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
GE 12000	69.8	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
GE 10000	73.5	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
GE 9000	74.5	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
GE 8000	77.3	77.5	77.7	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
GE 7000	79.1	79.4	79.6	79.6	79.7	79.7	79.8	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9
GE 6000	80.8	81.0	81.2	81.2	81.3	81.3	81.4	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5
GE 5000	81.8	82.0	82.3	82.3	82.4	82.4	82.5	82.5	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6
GE 4500	82.4	82.6	82.8	82.8	82.9	82.9	83.0	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1
GE 4000	84.3	84.7	84.9	84.9	85.1	85.1	85.2	85.2	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3
GE 3500	84.8	85.3	85.5	85.5	85.6	85.6	85.7	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8
GE 3000	86.7	87.2	87.4	87.4	88.0	88.0	88.1	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2
GE 2500	87.4	88.0	88.2	88.2	88.7	88.7	88.8	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9
GE 2000	89.4	90.1	90.5	90.8	91.3	91.3	91.4	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5
GE 1800	89.8	90.5	91.0	91.2	91.7	91.7	91.8	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 1500	90.2	91.1	91.5	91.7	92.3	92.3	92.4	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5
GE 1200	90.5	91.4	91.8	92.3	92.8	92.8	92.9	92.9	92.9	93.0	93.1	93.1	93.1	93.1	93.1	93.1
GE 1000	90.9	91.7	92.2	92.9	93.4	93.4	93.7	93.7	93.7	93.8	93.9	93.9	94.0	94.0	94.0	94.0
GE 900	91.1	91.9	92.5	93.2	93.8	93.8	94.0	94.0	94.0	94.2	94.3	94.3	94.4	94.4	94.4	94.4
GE 800	91.4	92.5	93.1	93.9	94.4	94.4	94.6	94.6	94.6	94.9	95.1	95.1	95.2	95.2	95.2	95.2
GE 700	91.5	92.6	93.2	94.0	94.5	94.5	94.7	94.7	94.7	95.1	95.2	95.2	95.3	95.3	95.3	95.3
GE 600	91.9	93.0	93.7	94.4	94.9	94.9	95.2	95.2	95.2	95.5	95.6	95.6	95.8	95.8	95.8	95.8
GE 500	92.3	93.3	94.0	94.9	95.7	95.7	96.0	96.0	96.0	96.3	96.5	96.5	96.7	96.7	96.7	96.7
GE 400	92.6	93.9	94.7	95.8	96.6	96.6	96.9	97.0	97.0	97.5	97.6	97.6	97.8	97.8	97.8	97.8
GE 300	92.7	94.0	94.8	95.9	96.7	96.7	97.1	97.2	97.4	97.6	98.1	98.2	98.2	98.5	98.5	98.5
GE 200	92.7	94.0	94.8	95.9	96.7	96.7	97.2	97.4	97.6	98.3	98.4	98.4	99.0	99.0	99.0	99.0
GE 100	92.7	94.0	94.8	95.9	96.7	96.7	97.2	97.4	97.6	98.3	98.5	98.6	99.2	99.5	99.7	99.7
GE 000	92.7	94.0	94.8	95.9	96.7	96.7	97.2	97.4	97.6	98.3	98.5	98.6	99.2	99.5	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 930

D - 2 - 7



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JAN HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	60.1	60.4	60.4	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
GE 20000	66.5	66.8	66.8	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
GE 18000	66.9	67.2	67.2	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
GE 16000	67.2	67.5	67.5	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
GE 14000	67.6	68.0	68.0	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 12000	68.8	69.1	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
GE 10000	71.2	71.5	71.5	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
GE 9000	72.8	73.1	73.1	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
GE 8000	76.1	76.5	76.7	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
GE 7000	78.0	78.3	78.5	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
GE 6000	78.7	79.0	79.2	79.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
GE 5000	80.3	80.6	81.0	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
GE 4500	80.4	80.8	81.1	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
GE 4000	82.4	82.7	83.1	83.2	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
GE 3500	83.0	83.3	83.8	83.9	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
GE 3000	85.1	85.5	86.0	86.2	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
GE 2500	85.7	86.1	86.8	87.0	87.6	87.6	87.6	87.6	87.6	87.6	87.7	87.7	87.7	87.7	87.7	87.7
GE 2000	87.4	88.0	88.7	88.9	89.6	89.6	89.6	89.6	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7
GE 1800	88.0	88.5	89.2	89.5	90.1	90.1	90.1	90.1	90.1	90.1	90.2	90.2	90.2	90.2	90.2	90.2
GE 1500	89.0	89.9	90.8	91.0	91.6	91.6	91.7	91.7	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8
GE 1200	90.3	91.3	92.2	92.4	93.0	93.0	93.1	93.1	93.1	93.2	93.3	93.3	93.3	93.3	93.3	93.3
GE 1000	90.4	91.4	92.3	92.5	93.1	93.1	93.3	93.3	93.3	93.4	93.5	93.5	93.5	93.5	93.5	93.5
GE 900	91.1	92.0	92.9	93.1	93.8	93.8	94.0	94.0	94.0	94.1	94.2	94.2	94.2	94.2	94.2	94.2
GE 800	91.7	92.7	93.5	93.9	94.5	94.5	94.7	94.7	94.7	94.8	94.9	94.9	94.9	94.9	94.9	94.9
GE 700	91.7	92.8	93.8	94.1	94.9	95.1	95.3	95.3	95.3	95.4	95.5	95.5	95.5	95.5	95.5	95.5
GE 600	91.8	92.9	93.9	94.2	95.1	95.2	95.5	95.5	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7
GE 500	92.5	93.7	94.6	94.9	95.9	96.0	96.3	96.3	96.3	96.6	96.7	96.7	97.0	97.0	97.1	97.1
GE 400	92.8	94.0	94.9	95.3	96.6	96.8	97.1	97.1	97.1	97.4	97.5	97.6	98.0	98.0	98.1	98.1
GE 300	93.0	94.2	95.2	95.5	96.8	97.0	97.3	97.3	97.3	97.7	97.8	98.1	98.5	98.5	98.6	98.6
GE 200	93.1	94.3	95.3	95.6	96.9	97.1	97.4	97.4	97.4	98.0	98.1	98.4	99.0	99.0	99.1	99.1
GE 100	93.1	94.3	95.3	95.6	96.9	97.1	97.4	97.4	97.4	98.0	98.1	98.4	99.0	99.1	99.2	99.8
GE 000	93.1	94.3	95.3	95.6	96.9	97.1	97.4	97.4	97.4	98.0	98.1	98.4	99.0	99.1	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JAN HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	58.2	58.4	58.5	58.6	58.7	58.7	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
GE 20000	65.8	66.0	66.1	66.2	66.3	66.3	66.3	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
GE 18000	66.1	66.4	66.5	66.5	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.8	66.8	66.8
GE 16000	66.4	66.6	66.7	66.8	66.9	66.9	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
GE 14000	66.9	67.1	67.2	67.3	67.4	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
GE 12000	68.4	68.7	68.8	68.9	69.0	69.0	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
GE 10000	72.0	72.3	72.4	72.5	72.6	72.6	72.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
GE 9000	73.1	73.3	73.4	73.5	73.7	73.7	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
GE 8000	76.6	76.9	77.1	77.2	77.4	77.4	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
GE 7000	78.1	78.4	78.6	78.7	78.9	78.9	79.0	79.0	79.0	79.1	79.1	79.1	79.1	79.2	79.2	79.2
GE 6000	79.3	79.6	79.8	79.9	80.2	80.2	80.2	80.3	80.3	80.3	80.4	80.4	80.4	80.4	80.4	80.4
GE 5000	80.7	81.0	81.3	81.5	81.8	81.8	81.8	81.9	81.9	81.9	82.0	82.0	82.0	82.0	82.0	82.0
GE 4500	81.3	81.6	81.9	82.0	82.3	82.3	82.4	82.5	82.5	82.5	82.6	82.6	82.6	82.6	82.6	82.6
GE 4000	83.4	83.8	84.1	84.3	84.7	84.7	84.7	84.8	84.8	84.8	84.9	84.9	84.9	84.9	84.9	84.9
GE 3500	84.1	84.5	84.8	85.0	85.4	85.4	85.4	85.5	85.5	85.5	85.6	85.6	85.6	85.6	85.7	85.7
GE 3000	85.5	86.0	86.4	86.7	87.2	87.2	87.4	87.5	87.5	87.5	87.6	87.6	87.7	87.7	87.7	87.7
GE 2500	86.1	86.6	87.0	87.4	87.9	87.9	88.1	88.2	88.2	88.2	88.3	88.3	88.4	88.4	88.4	88.4
GE 2000	87.4	87.9	88.6	89.1	89.6	89.6	89.8	89.9	89.9	90.0	90.1	90.2	90.2	90.3	90.3	90.3
GE 1800	87.8	88.3	89.0	89.5	90.1	90.1	90.3	90.4	90.4	90.5	90.6	90.7	90.7	90.8	90.8	90.8
GE 1500	88.4	89.0	89.7	90.3	90.9	90.9	91.1	91.3	91.3	91.4	91.5	91.6	91.6	91.7	91.7	91.7
GE 1200	89.0	89.6	90.4	91.1	91.7	91.7	91.9	92.1	92.1	92.2	92.4	92.4	92.5	92.6	92.6	92.6
GE 1000	89.4	90.0	90.8	91.5	92.2	92.2	92.5	92.6	92.6	92.8	93.0	93.0	93.1	93.2	93.2	93.2
GE 900	89.6	90.2	91.0	91.7	92.4	92.4	92.7	92.9	92.9	93.1	93.3	93.3	93.5	93.5	93.5	93.5
GE 800	90.0	90.7	91.6	92.4	93.1	93.1	93.4	93.6	93.6	93.8	94.0	94.1	94.2	94.2	94.3	94.3
GE 700	90.2	90.9	91.9	92.6	93.4	93.4	93.7	93.9	93.9	94.2	94.4	94.4	94.6	94.6	94.7	94.8
GE 600	90.5	91.3	92.2	93.0	93.8	93.8	94.2	94.4	94.4	94.7	94.9	95.1	95.2	95.3	95.3	95.4
GE 500	90.8	91.6	92.6	93.5	94.3	94.3	94.8	95.0	95.1	95.3	95.7	95.8	96.0	96.1	96.2	96.3
GE 400	91.2	92.0	93.1	94.1	95.0	95.1	95.6	95.8	95.8	96.2	96.6	96.8	97.0	97.1	97.2	97.3
GE 300	91.3	92.2	93.3	94.3	95.3	95.3	95.9	96.3	96.3	97.0	97.3	97.6	97.8	97.9	98.1	98.3
GE 200	91.4	92.2	93.3	94.3	95.4	95.4	96.1	96.5	96.5	97.3	97.7	98.0	98.4	98.5	98.7	99.1
GE 100	91.4	92.2	93.3	94.3	95.4	95.4	96.1	96.5	96.5	97.4	97.9	98.2	98.6	98.8	99.2	99.8
GE 000	91.4	92.2	93.3	94.3	95.4	95.4	96.1	96.5	96.5	97.4	97.9	98.2	98.6	98.8	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: FEB HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	60.2	60.3	60.8	60.8	60.8	60.8	60.9	60.9	60.9	61.0	61.0	61.0	61.2	61.2	61.2	61.3
GE 20000	65.7	65.8	66.3	66.3	66.3	66.3	66.4	66.4	66.4	66.5	66.5	66.5	66.8	66.8	66.8	66.9
GE 18000	65.8	66.0	66.4	66.4	66.4	66.4	66.5	66.5	66.5	66.7	66.7	66.7	66.9	66.9	66.9	67.0
GE 16000	65.8	66.0	66.4	66.4	66.4	66.4	66.5	66.5	66.5	66.7	66.7	66.7	66.9	66.9	66.9	67.0
GE 14000	66.0	66.1	66.7	66.7	66.7	66.7	66.8	66.8	66.8	66.9	66.9	66.9	67.1	67.1	67.1	67.3
GE 12000	66.3	66.4	67.0	67.0	67.0	67.0	67.1	67.1	67.1	67.3	67.3	67.3	67.5	67.5	67.5	67.6
GE 10000	68.9	69.0	69.6	69.6	69.6	69.6	69.7	69.7	69.7	69.9	69.9	69.9	70.1	70.1	70.1	70.2
GE 9000	69.0	69.1	69.7	69.7	69.9	69.9	70.0	70.0	70.0	70.1	70.1	70.1	70.3	70.3	70.3	70.4
GE 8000	73.4	73.6	74.3	74.3	74.5	74.5	74.6	74.6	74.6	74.7	74.7	74.7	74.9	74.9	74.9	75.1
GE 7000	74.1	74.3	75.1	75.1	75.2	75.2	75.3	75.3	75.3	75.4	75.4	75.4	75.7	75.7	75.7	75.8
GE 6000	74.3	74.6	75.3	75.3	75.4	75.4	75.5	75.5	75.5	75.7	75.7	75.7	75.9	75.9	75.9	76.0
GE 5000	76.4	76.6	77.3	77.3	77.4	77.4	77.5	77.5	77.5	77.7	77.7	77.7	77.9	77.9	77.9	78.0
GE 4500	77.5	77.8	78.5	78.5	78.6	78.6	78.7	78.7	78.7	78.8	78.8	78.8	79.1	79.1	79.1	79.2
GE 4000	78.6	78.8	79.6	79.6	79.8	79.8	80.0	80.0	80.0	80.1	80.1	80.1	80.4	80.4	80.4	80.5
GE 3500	79.3	79.6	80.3	80.3	80.5	80.6	80.7	80.7	80.7	80.9	80.9	80.9	81.1	81.1	81.1	81.2
GE 3000	81.2	81.4	82.2	82.4	82.7	82.9	83.0	83.0	83.0	83.1	83.1	83.1	83.3	83.3	83.3	83.5
GE 2500	81.6	81.9	82.6	82.9	83.2	83.3	83.5	83.5	83.5	83.6	83.6	83.6	83.8	83.8	83.8	83.9
GE 2000	82.9	83.3	84.0	84.3	84.6	84.8	84.9	85.0	85.0	85.1	85.1	85.1	85.3	85.3	85.3	85.5
GE 1800	83.3	83.8	84.6	84.9	85.2	85.3	85.5	85.6	85.6	85.7	85.7	85.7	85.9	85.9	85.9	86.1
GE 1500	83.9	84.4	85.3	85.6	85.9	86.1	86.6	86.8	86.8	86.9	86.9	86.9	87.1	87.1	87.1	87.2
GE 1200	84.6	85.1	86.1	86.3	86.8	86.9	87.5	87.8	87.8	87.9	87.9	87.9	88.2	88.2	88.2	88.3
GE 1000	85.1	85.6	86.5	86.9	87.5	87.6	88.2	88.5	88.7	88.9	88.9	88.9	89.1	89.1	89.1	89.2
GE 900	85.3	85.8	86.8	87.1	87.7	87.8	88.5	89.1	89.2	89.5	89.5	89.5	89.7	89.7	89.7	89.8
GE 800	86.1	86.5	87.5	87.8	88.4	88.5	89.2	89.8	90.0	90.2	90.2	90.2	90.4	90.4	90.4	90.5
GE 700	86.4	86.9	87.8	88.2	88.9	89.0	89.7	90.3	90.4	90.7	90.7	90.7	90.9	90.9	90.9	91.0
GE 600	86.5	87.0	87.9	88.3	89.2	89.4	90.1	90.8	90.9	91.3	91.3	91.4	91.6	91.6	91.6	91.7
GE 500	87.0	87.6	88.5	88.9	90.0	90.1	90.8	91.5	91.6	92.7	92.7	92.9	93.4	93.4	93.4	93.5
GE 400	87.8	88.4	89.5	90.0	91.1	91.3	92.0	92.7	92.8	93.9	94.7	94.9	95.7	95.9	95.9	96.0
GE 300	88.1	88.7	89.7	90.2	91.6	91.7	92.7	93.4	93.5	94.7	95.5	96.0	96.8	96.9	96.9	97.0
GE 200	88.2	88.8	90.0	90.5	92.1	92.2	93.1	93.9	94.0	95.2	96.0	96.5	97.4	97.5	97.5	97.6
GE 100	88.2	88.8	90.0	90.5	92.1	92.2	93.1	93.9	94.0	95.2	96.0	96.5	97.5	97.8	98.2	98.5
GE 000	88.2	88.8	90.0	90.5	92.1	92.2	93.1	93.9	94.0	95.2	96.0	96.5	97.9	98.1	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS 846

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ALLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: FEB HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.4	57.4	57.6	57.7	57.7	57.7	57.7	57.8	57.9
GE 20000	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.3	64.3	64.4	64.5	64.5	64.5	64.5	64.7	64.8
GE 18000	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.4	64.4	64.5	64.7	64.7	64.7	64.7	64.8	64.9
GE 16000	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.4	64.4	64.5	64.7	64.7	64.7	64.7	64.3	64.9
GE 14000	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.8	64.8	64.9	65.0	65.0	65.0	65.0	65.1	65.2
GE 12000	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.2	65.2	65.4	65.5	65.5	65.5	65.5	65.6	65.7
GE 10000	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.4	66.4	66.5	66.7	66.7	66.7	66.7	66.8	66.9
GE 9000	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.7	66.7	66.8	66.9	66.9	66.9	66.9	67.0	67.1
GE 8000	70.7	70.7	70.8	70.9	70.9	70.9	70.9	71.0	71.0	71.2	71.3	71.3	71.3	71.3	71.4	71.5
GE 7000	71.4	71.4	71.7	72.0	72.0	72.0	72.0	72.1	72.1	72.2	72.3	72.3	72.3	72.3	72.5	72.6
GE 6000	71.6	71.6	72.0	72.2	72.2	72.2	72.2	72.3	72.3	72.5	72.6	72.6	72.6	72.6	72.7	72.8
GE 5000	74.1	74.1	74.5	74.7	74.7	74.7	74.7	74.8	74.8	74.9	75.1	75.1	75.1	75.1	75.2	75.3
GE 4500	75.2	75.2	75.7	76.0	76.0	76.0	76.0	76.1	76.1	76.2	76.4	76.4	76.4	76.4	76.5	76.6
GE 4000	77.9	78.0	78.5	78.8	78.8	78.8	78.8	79.0	79.0	79.1	79.2	79.2	79.2	79.2	79.3	79.4
GE 3500	78.8	79.0	79.4	79.8	79.8	79.8	79.8	79.9	79.9	80.0	80.1	80.1	80.1	80.1	80.3	80.4
GE 3000	81.3	81.4	81.9	82.3	82.6	82.6	82.6	82.7	82.7	82.9	83.0	83.0	83.0	83.0	83.1	83.2
GE 2500	82.3	82.5	83.0	83.3	83.7	83.7	83.7	83.8	83.8	83.9	84.0	84.0	84.0	84.0	84.2	84.3
GE 2000	83.7	83.9	84.4	84.8	85.1	85.2	85.2	85.5	85.5	85.6	85.7	85.7	85.7	85.7	85.8	85.9
GE 1800	84.3	84.5	85.0	85.3	85.9	86.1	86.1	86.3	86.3	86.4	86.5	86.5	86.5	86.5	86.6	86.8
GE 1500	85.7	85.9	86.4	86.8	87.4	87.5	87.5	87.7	87.7	87.8	87.9	87.9	87.9	87.9	88.1	88.4
GE 1200	86.2	86.4	87.1	87.5	88.3	88.4	88.5	89.0	89.0	89.1	89.2	89.2	89.2	89.2	89.4	89.5
GE 1000	86.8	87.0	87.7	88.1	88.9	89.0	89.2	89.7	89.7	89.8	90.0	90.0	90.0	90.0	90.1	90.2
GE 900	86.9	87.1	87.8	88.2	89.0	89.1	89.4	89.8	89.8	90.1	90.2	90.2	90.2	90.2	90.3	90.4
GE 800	87.4	87.6	88.3	88.7	89.5	89.6	89.8	90.3	90.3	90.5	90.7	90.7	90.7	90.7	90.8	90.9
GE 700	87.7	87.9	88.9	89.2	90.1	90.2	90.5	91.0	91.0	91.4	91.5	91.5	91.5	91.5	91.6	91.7
GE 600	88.2	88.5	89.5	89.8	90.7	90.8	91.1	91.6	91.6	92.0	92.1	92.1	92.1	92.1	92.2	92.3
GE 500	88.8	89.1	90.1	90.4	91.4	91.5	91.8	92.3	92.3	92.9	93.0	93.1	93.1	93.1	93.3	93.4
GE 400	89.7	90.1	91.1	91.5	92.4	92.6	92.9	93.4	93.4	94.2	95.2	95.4	95.5	95.5	95.6	95.7
GE 300	90.3	90.7	91.7	92.1	93.1	93.3	93.7	94.3	94.3	95.3	96.5	96.8	97.0	97.2	97.5	97.6
GE 200	90.3	90.9	92.0	92.6	93.6	93.7	94.2	94.8	94.9	96.0	97.2	97.6	98.0	98.1	98.5	98.6
GE 100	90.3	90.9	92.0	92.6	93.6	93.7	94.2	94.8	95.0	96.1	97.4	97.9	98.2	98.3	98.7	99.2
GE 000	90.3	90.9	92.0	92.6	93.6	93.7	94.2	94.8	95.0	96.1	97.4	97.9	98.3	98.5	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 846

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: FEB HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	53.1	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.3
GE 20000	61.2	61.3	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.6	61.7
GE 18000	61.5	61.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.8	61.9
GE 16000	61.5	61.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.8	61.9
GE 14000	62.2	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.5	62.6
GE 12000	63.1	63.2	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.5	63.6
GE 10000	66.3	66.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.8	66.9
GE 9000	66.5	66.7	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	67.0	67.1
GE 8000	70.2	70.3	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.7	70.8
GE 7000	71.4	71.5	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.9	72.0
GE 6000	72.6	72.7	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.0	73.2
GE 5000	74.7	74.8	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.2	75.3
GE 4500	75.5	75.7	75.9	75.9	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.2	76.4
GE 4000	77.8	77.9	78.1	78.1	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.5	78.6
GE 3500	78.5	78.6	79.0	79.0	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.4	79.6
GE 3000	79.9	80.0	80.4	80.6	81.3	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.6	81.7
GE 2500	80.6	80.7	81.2	81.6	82.3	82.3	82.4	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.7	82.9
GE 2000	82.5	82.6	83.1	83.7	84.6	84.8	84.9	84.9	85.0	85.1	85.1	85.1	85.1	85.1	85.3	85.5
GE 1800	83.0	83.1	83.6	84.2	85.2	85.3	85.5	85.5	85.6	85.7	85.7	85.7	85.7	85.7	85.9	86.1
GE 1500	84.9	85.1	85.7	86.3	87.4	87.5	87.6	87.6	87.7	87.8	87.8	87.8	87.8	87.8	88.1	88.2
GE 1200	85.2	85.5	86.4	87.0	88.2	88.3	88.5	88.8	88.9	89.0	89.0	89.0	89.0	89.0	89.2	89.4
GE 1000	85.3	85.7	86.8	87.4	88.5	88.7	89.0	89.4	89.5	89.7	89.8	89.8	89.8	89.8	90.1	90.2
GE 900	85.9	86.3	87.4	87.9	89.1	89.2	89.6	90.0	90.1	90.3	90.4	90.4	90.4	90.4	90.7	90.8
GE 800	86.3	86.6	87.7	88.3	89.5	89.6	90.0	90.3	90.4	90.7	90.8	90.8	90.8	90.8	91.0	91.1
GE 700	86.5	87.2	88.3	89.0	90.2	90.3	90.7	91.0	91.1	91.5	91.6	91.6	91.6	91.6	91.8	92.0
GE 600	87.0	87.7	88.8	89.5	90.8	90.9	91.3	91.6	91.7	92.2	92.3	92.4	92.6	92.6	92.8	92.9
GE 500	87.4	88.1	89.1	89.8	91.3	91.4	91.7	92.2	92.3	92.9	93.0	93.3	93.6	93.6	93.9	94.0
GE 400	87.9	88.7	89.7	90.7	92.2	92.3	92.7	93.1	93.3	93.9	94.4	94.8	95.2	95.2	95.4	95.5
GE 300	88.3	89.1	90.4	91.5	93.1	93.3	93.6	94.2	94.3	95.3	96.1	96.5	96.8	96.8	97.0	97.2
GE 200	88.4	89.2	90.7	91.7	93.4	93.5	93.9	94.6	94.7	95.7	96.9	97.4	97.9	98.0	98.2	98.3
GE 100	88.4	89.2	90.7	91.7	93.4	93.5	93.9	94.6	94.8	96.0	97.2	97.6	98.1	98.2	98.6	99.3
GE 000	88.4	89.2	90.7	91.7	93.4	93.5	93.9	94.6	94.8	96.0	97.2	97.6	98.1	98.3	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 846

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: FEB HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
GE 20000	61.6	61.9	61.9	61.9	61.9	61.9	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.2	62.2	62.2
GE 18000	62.5	62.9	62.9	62.9	62.9	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.1	63.1	63.1
GE 16000	62.6	63.0	63.0	63.0	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.2	63.2	63.2
GE 14000	63.4	63.7	63.7	63.7	63.7	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.9	63.9	63.9
GE 12000	65.8	66.2	66.2	66.2	66.2	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.4	66.4	66.4
GE 10000	68.8	69.1	69.1	69.1	69.1	69.1	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.4	69.4	69.4
GE 9000	68.9	69.3	69.3	69.3	69.3	69.3	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.5	69.5	69.5
GE 8000	74.2	74.6	74.6	74.6	74.6	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.8	74.8	74.8
GE 7000	74.6	74.9	74.9	74.9	74.9	74.9	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.2	75.2	75.2
GE 6000	75.8	76.1	76.1	76.1	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.4	76.4	76.4
GE 5000	77.1	77.5	77.5	77.5	77.5	77.5	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.8	77.8	77.8
GE 4500	77.3	78.0	78.0	78.0	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.3	78.3	78.3
GE 4000	79.7	80.4	80.5	80.5	80.5	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.7	80.7	80.7
GE 3500	80.9	81.6	81.7	81.7	81.7	81.7	81.8	81.8	81.8	81.9	81.9	81.9	81.9	82.0	82.0	82.0
GE 3000	81.8	82.5	82.6	82.7	82.9	82.9	83.0	83.0	83.0	83.1	83.1	83.1	83.1	83.2	83.2	83.2
GE 2500	82.2	82.9	83.3	83.6	83.8	83.8	83.9	83.9	83.9	84.0	84.0	84.0	84.0	84.2	84.3	84.3
GE 2000	82.5	83.2	83.8	84.0	84.6	84.6	85.1	85.1	85.1	85.3	85.3	85.3	85.3	85.5	85.6	85.6
GE 1800	82.5	83.2	83.8	84.0	84.6	84.6	85.1	85.1	85.1	85.3	85.3	85.3	85.3	85.5	85.6	85.6
GE 1500	83.3	84.0	84.9	85.2	85.8	85.8	86.4	86.4	86.4	86.6	86.6	87.1	87.1	87.2	87.4	87.4
GE 1200	84.2	84.9	85.7	86.3	87.0	87.0	87.7	87.9	87.9	88.2	88.3	88.8	88.8	88.9	89.0	89.0
GE 1000	84.8	85.5	86.6	87.2	88.1	88.2	89.0	89.2	89.2	89.5	89.7	90.2	90.4	90.5	90.7	90.7
GE 900	85.6	86.3	87.5	88.2	89.0	89.1	90.1	90.7	90.7	90.9	91.1	91.6	91.8	92.0	92.1	92.1
GE 800	85.7	86.4	87.6	88.3	89.1	89.2	90.3	91.0	91.0	91.4	91.7	92.2	92.6	92.7	92.8	92.8
GE 700	86.1	86.8	87.9	88.7	89.5	89.6	90.8	91.6	91.6	92.1	92.4	92.9	93.3	93.4	93.5	93.5
GE 600	86.3	87.0	88.2	88.9	89.7	89.8	91.0	91.8	91.8	92.3	92.8	93.4	93.9	94.0	94.1	94.1
GE 500	86.5	87.2	88.4	89.2	90.1	90.2	91.6	92.7	92.7	93.4	94.0	94.6	95.0	95.2	95.3	95.3
GE 400	86.5	87.2	88.4	89.2	90.2	90.4	92.0	93.0	93.0	94.0	94.7	95.3	96.0	96.1	96.2	96.2
GE 300	86.5	87.4	88.5	89.5	90.7	90.9	92.6	93.6	93.6	94.7	95.4	96.0	96.7	97.2	97.3	97.3
GE 200	86.6	87.5	88.7	89.6	90.8	91.0	92.7	93.9	93.9	95.2	96.6	97.3	98.2	98.8	98.9	99.1
GE 100	86.6	87.5	88.7	89.6	90.8	91.0	92.7	93.9	93.9	95.2	97.0	97.8	98.7	99.3	99.4	99.9
GE 000	86.6	87.5	88.7	89.6	90.8	91.0	92.7	93.9	93.9	95.2	97.0	97.8	98.7	99.3	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 846

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: FEB HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	52.8	53.0	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
GE 20000	63.8	63.9	63.9	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
GE 18000	64.1	64.2	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
GE 16000	64.1	64.2	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
GE 14000	64.8	64.9	64.9	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
GE 12000	66.9	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
GE 10000	70.0	70.1	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
GE 9000	70.6	70.7	70.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
GE 8000	75.1	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
GE 7000	75.2	75.5	75.5	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
GE 6000	77.0	77.3	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
GE 5000	79.0	79.3	79.3	79.4	79.4	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
GE 4500	79.3	79.7	79.7	79.8	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
GE 4000	82.3	82.7	82.9	83.0	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
GE 3500	82.5	83.0	83.2	83.3	83.7	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
GE 3000	83.9	84.4	84.8	85.0	85.3	85.3	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 2500	84.0	84.5	85.1	85.6	85.9	85.9	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
GE 2000	84.9	85.3	85.9	86.8	87.4	87.4	87.9	87.9	87.9	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE 1800	85.2	85.7	86.4	87.2	87.8	87.8	88.4	88.4	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5
GE 1500	86.5	87.0	87.8	88.7	89.2	89.4	90.1	90.2	90.2	90.5	90.5	90.8	90.8	90.8	90.8	90.8
GE 1200	87.7	88.3	89.4	90.3	90.9	91.0	91.7	92.1	92.1	92.4	92.4	92.7	92.7	92.7	92.7	92.7
GE 1000	88.4	89.0	90.1	91.3	91.8	92.0	92.7	93.1	93.1	93.5	93.5	93.7	93.7	93.7	93.7	93.7
GE 900	88.4	89.0	90.1	91.3	92.0	92.1	92.9	93.6	93.7	94.1	94.1	94.3	94.3	94.3	94.3	94.3
GE 800	88.9	89.5	90.5	91.7	92.4	92.6	93.4	94.2	94.3	94.7	94.7	94.9	94.9	94.9	94.9	94.9
GE 700	89.4	90.0	91.0	92.2	93.0	93.1	94.0	94.9	95.0	95.4	95.4	96.0	96.0	96.0	96.0	96.0
GE 600	89.7	90.3	91.4	92.6	93.4	93.5	94.3	95.3	95.4	95.7	95.7	96.3	96.3	96.3	96.3	96.3
GE 500	90.0	90.5	91.6	92.8	93.6	93.7	94.7	95.6	95.7	96.2	96.3	97.2	97.5	97.5	97.5	97.5
GE 400	90.0	90.5	91.7	92.9	93.7	93.9	95.0	96.0	96.1	96.7	96.8	97.6	98.1	98.2	98.2	98.2
GE 300	90.0	90.5	91.7	92.9	93.9	94.0	95.2	96.1	96.2	96.9	97.0	97.9	98.5	98.7	98.7	98.7
GE 200	90.1	90.7	91.8	93.0	94.0	94.1	95.4	96.3	96.5	97.2	97.3	98.1	99.2	99.4	99.4	99.6
GE 100	90.1	90.7	91.8	93.0	94.0	94.1	95.4	96.3	96.5	97.2	97.3	98.1	99.2	99.4	99.8	100.0
GE 000	90.1	90.7	91.8	93.0	94.0	94.1	95.4	96.3	96.5	97.2	97.3	98.1	99.2	99.4	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 846

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: FEB HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	52.1	52.1	52.1	52.1	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
GE 20000	62.7	62.7	62.7	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
GE 18000	63.1	63.1	63.1	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 16000	63.3	63.3	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
GE 14000	64.6	64.6	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
GE 12000	65.9	65.9	65.9	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
GE 10000	69.9	69.9	69.9	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
GE 9000	70.5	70.5	70.5	70.5	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
GE 8000	75.3	75.4	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
GE 7000	75.9	76.0	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
GE 6000	76.4	76.6	77.0	77.0	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
GE 5000	78.9	79.1	79.6	79.6	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
GE 4500	79.4	79.5	80.1	80.2	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
GE 4000	82.1	82.2	82.8	83.1	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
GE 3500	83.0	83.1	83.7	83.9	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
GE 3000	84.9	85.0	85.7	86.5	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
GE 2500	85.2	85.4	86.4	87.6	87.9	87.9	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
GE 2000	86.0	86.3	87.2	88.8	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
GE 1800	86.3	86.5	87.5	89.0	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 1500	87.0	87.2	88.2	89.7	90.3	90.4	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 1200	87.9	88.4	89.3	91.0	91.6	91.7	92.1	92.2	92.2	92.2	92.2	92.2	92.2	92.3	92.3	92.3
GE 1000	88.5	89.0	89.9	91.6	92.3	92.5	93.1	93.5	93.5	93.6	93.6	93.6	93.7	93.7	93.7	93.7
GE 900	88.6	89.1	90.1	91.7	92.4	92.7	93.3	93.6	93.6	93.7	94.0	94.0	94.1	94.1	94.1	94.1
GE 800	88.9	89.3	90.4	92.1	93.0	93.3	93.8	94.2	94.2	94.3	94.6	94.6	94.7	94.7	94.7	94.7
GE 700	89.1	89.6	90.8	92.4	93.5	93.7	94.3	94.9	94.9	95.0	95.3	95.4	95.5	95.5	95.5	95.5
GE 600	89.2	89.7	90.9	92.5	93.7	94.0	94.6	95.1	95.1	95.3	95.5	95.6	95.7	95.7	95.7	95.7
GE 500	89.5	89.9	91.1	93.0	94.2	94.4	95.1	95.7	95.7	96.2	96.9	97.0	97.5	97.5	97.6	97.6
GE 400	89.5	89.9	91.1	93.0	94.2	94.6	95.3	95.9	95.9	96.6	97.3	97.4	98.0	98.0	98.1	98.1
GE 300	89.5	89.9	91.1	93.0	94.2	94.6	95.3	95.9	95.9	96.6	97.3	97.4	98.1	98.1	98.2	98.3
GE 200	89.5	89.9	91.1	93.0	94.4	94.8	95.6	96.3	96.3	97.0	97.8	97.9	98.7	98.8	99.1	99.2
GE 100	89.5	89.9	91.1	93.0	94.4	94.8	95.6	96.3	96.3	97.0	97.8	98.0	98.8	98.9	99.5	99.9
GE 000	89.5	89.9	91.1	93.0	94.4	94.8	95.6	96.3	96.3	97.0	97.8	98.0	98.8	98.9	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 845



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: FEB HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	54.8	54.9	54.9	54.9	54.9	54.9	54.9	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
GE 20000	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 18000	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 16000	63.5	63.6	63.6	63.6	63.6	63.6	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
GE 14000	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
GE 12000	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
GE 10000	69.5	69.6	69.6	69.6	69.6	69.6	69.6	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
GE 9000	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
GE 8000	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
GE 7000	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.9	75.9	76.0	76.2	76.2	76.2	76.2	76.2	76.2
GE 6000	75.8	75.9	75.9	75.9	75.9	75.9	75.9	76.0	76.0	76.2	76.3	76.3	76.3	76.3	76.3	76.3
GE 5000	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.8	77.8	77.9	78.1	78.1	78.1	78.1	78.1	78.1
GE 4500	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.8	78.8	78.9	79.0	79.0	79.0	79.0	79.0	79.0
GE 4000	80.8	81.0	81.0	81.0	81.1	81.1	81.3	81.4	81.4	81.5	81.6	81.6	81.6	81.6	81.6	81.6
GE 3500	81.4	81.6	81.6	81.6	81.7	81.7	81.9	82.0	82.0	82.1	82.2	82.2	82.2	82.2	82.2	82.2
GE 3000	83.6	84.0	84.1	84.2	84.6	84.6	84.7	84.8	84.8	84.9	85.1	85.1	85.1	85.1	85.1	85.1
GE 2500	84.0	84.5	85.3	85.5	85.9	85.9	86.1	86.2	86.2	86.4	86.5	86.5	86.5	86.5	86.5	86.5
GE 2000	85.5	86.0	86.8	87.1	87.4	87.4	87.7	87.8	87.8	87.9	88.0	88.0	88.0	88.0	88.0	88.0
GE 1800	85.9	86.4	87.2	87.4	87.8	87.8	88.0	88.1	88.1	88.3	88.4	88.4	88.4	88.4	88.4	88.4
GE 1500	86.1	86.6	87.4	87.8	88.3	88.3	88.5	88.7	88.7	89.0	89.1	89.1	89.1	89.1	89.1	89.1
GE 1200	86.8	87.3	88.1	88.5	89.0	89.0	89.2	89.7	89.7	89.9	90.0	90.0	90.0	90.0	90.0	90.0
GE 1000	88.1	88.6	89.7	90.3	91.1	91.1	91.3	92.1	92.2	92.4	92.5	92.5	92.5	92.5	92.5	92.5
GE 900	88.3	88.7	89.8	90.4	91.2	91.2	91.5	92.2	92.3	92.5	92.6	92.6	92.6	92.6	92.6	92.6
GE 800	88.6	89.1	90.2	90.7	91.6	91.6	91.9	92.6	92.8	93.0	93.1	93.1	93.1	93.1	93.1	93.1
GE 700	89.0	89.8	90.9	91.5	92.3	92.3	92.6	93.4	93.5	93.7	94.1	94.2	94.2	94.2	94.2	94.2
GE 600	89.0	89.8	90.9	91.5	92.3	92.3	92.6	93.4	93.5	93.7	94.1	94.2	94.3	94.3	94.3	94.3
GE 500	89.9	90.9	91.9	92.5	93.5	93.5	93.8	94.5	94.7	95.1	95.7	96.0	96.3	96.3	96.3	96.3
GE 400	90.2	91.1	92.2	92.8	93.7	93.7	94.2	94.9	95.0	95.6	96.4	96.7	97.0	97.0	97.2	97.2
GE 300	90.4	91.3	92.4	93.0	94.0	94.2	94.7	95.4	95.5	96.1	96.9	97.3	97.6	97.6	97.9	97.9
GE 200	90.4	91.3	92.4	93.0	94.0	94.2	94.8	95.5	95.6	96.4	97.3	97.7	98.2	98.2	98.5	98.5
GE 100	90.4	91.3	92.4	93.0	94.0	94.2	94.8	95.5	95.6	96.4	97.3	98.0	98.5	98.5	99.1	99.2
GE 000	90.4	91.3	92.4	93.0	94.0	94.2	94.8	95.5	95.6	96.4	97.3	98.1	98.6	98.7	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 843

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: FEB HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	59.0	59.1	59.1	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.3	59.3
GE 20000	64.4	64.5	64.5	64.5	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.8	64.8
GE 18000	64.4	64.5	64.5	64.5	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.8	64.8
GE 16000	64.5	64.7	64.7	64.7	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.9	64.9
GE 14000	65.0	65.1	65.1	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.4	65.4
GE 12000	65.2	65.4	65.4	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.6	65.6
GE 10000	68.7	68.8	68.8	68.8	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	69.0	69.0
GE 9000	69.3	69.4	69.4	69.4	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.6	69.6
GE 8000	75.0	75.1	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.3	75.3
GE 7000	75.0	75.1	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.3	75.3
GE 6000	75.7	75.8	75.8	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	76.0	76.0
GE 5000	77.2	77.3	77.3	77.3	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.8	77.8
GE 4500	78.2	78.3	78.3	78.3	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.8	78.8
GE 4000	79.7	80.0	80.0	80.0	80.4	80.4	80.4	80.5	80.7	80.7	80.7	80.7	80.7	80.7	80.8	80.8
GE 3500	80.7	81.0	81.0	81.0	81.5	81.5	81.5	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.9	81.9
GE 3000	82.2	82.6	82.6	82.6	83.2	83.2	83.2	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.5	83.5
GE 2500	83.0	83.4	83.5	83.6	84.2	84.2	84.3	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.7	84.7
GE 2000	84.2	84.6	84.7	84.8	85.4	85.4	85.5	85.6	85.8	85.8	85.8	85.8	85.8	85.8	85.9	85.9
GE 1800	84.6	84.9	85.1	85.2	85.8	85.8	85.9	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.2	86.2
GE 1500	85.2	85.5	85.6	85.8	86.4	86.4	86.5	86.7	86.8	86.8	87.0	87.0	87.0	87.0	87.1	87.1
GE 1200	86.2	86.7	86.8	87.0	87.5	87.5	87.7	87.9	88.3	88.3	88.4	88.4	88.4	88.4	88.5	88.5
GE 1000	87.2	87.7	87.8	87.9	88.7	88.7	88.8	89.1	89.8	90.2	90.5	90.5	90.5	90.5	90.6	90.6
GE 900	87.3	87.8	87.9	88.0	88.8	88.8	89.0	89.3	90.0	90.4	91.0	91.0	91.0	91.0	91.1	91.1
GE 800	87.7	88.1	88.3	88.4	89.2	89.2	89.3	89.7	90.4	90.9	91.6	91.6	91.6	91.6	91.7	91.7
GE 700	88.0	88.5	88.6	88.7	89.6	89.6	89.7	90.0	90.7	91.2	91.9	91.9	91.9	91.9	92.1	92.1
GE 600	88.5	89.0	89.2	89.3	90.2	90.2	90.3	90.6	91.3	91.8	92.5	92.5	92.5	92.5	92.6	92.6
GE 500	89.7	90.3	90.5	90.6	91.7	91.7	91.8	92.2	92.9	93.7	94.5	94.5	95.1	95.1	95.3	95.3
GE 400	90.5	91.1	91.5	91.6	92.6	92.6	92.8	93.1	93.8	94.9	96.0	96.0	96.7	96.7	96.8	96.8
GE 300	91.0	91.7	92.1	92.2	93.2	93.2	93.4	93.7	94.4	95.5	96.7	96.8	97.5	97.5	97.6	97.6
GE 200	91.0	91.7	92.2	92.3	93.4	93.4	93.6	94.0	94.7	96.0	97.3	97.5	98.3	98.3	98.7	98.7
GE 100	91.0	91.7	92.2	92.3	93.4	93.4	93.6	94.0	94.7	96.0	97.4	97.6	98.5	98.6	99.1	99.2
GE 000	91.0	91.7	92.2	92.3	93.4	93.4	93.6	94.0	94.7	96.0	97.4	97.6	98.5	98.6	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 843

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: FEB HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	55.0	55.0	55.1	55.1	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.3	55.3	55.3	55.3
GE 20000	63.3	63.5	63.5	63.5	63.6	63.6	63.6	63.6	63.6	63.7	63.7	63.7	63.7	63.7	63.8	63.8
GE 18000	63.6	63.7	63.8	63.8	63.8	63.8	63.9	63.9	63.9	63.9	63.9	63.9	64.0	64.0	64.0	64.1
GE 16000	63.7	63.8	63.9	63.9	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.1	64.1	64.1	64.2
GE 14000	64.4	64.5	64.5	64.6	64.6	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.8	64.8	64.8
GE 12000	65.6	65.7	65.8	65.8	65.8	65.8	65.8	65.9	65.9	65.9	65.9	65.9	65.9	66.0	66.0	66.0
GE 10000	68.6	68.7	68.8	68.8	68.8	68.8	68.9	68.9	68.9	68.9	68.9	68.9	69.0	69.0	69.0	69.1
GE 9000	69.0	69.1	69.2	69.2	69.2	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.4	69.4	69.4	69.5
GE 8000	73.6	73.8	73.9	74.0	74.0	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.2	74.2
GE 7000	74.1	74.3	74.5	74.6	74.6	74.6	74.6	74.7	74.7	74.7	74.7	74.7	74.8	74.8	74.8	74.9
GE 6000	74.9	75.1	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.5	75.5	75.5	75.6	75.6	75.6	75.7
GE 5000	76.9	77.1	77.3	77.3	77.4	77.4	77.5	77.5	77.5	77.5	77.6	77.6	77.6	77.6	77.7	77.7
GE 4500	77.6	77.8	78.1	78.2	78.3	78.3	78.3	78.3	78.3	78.4	78.4	78.4	78.4	78.5	78.5	78.6
GE 4000	79.9	80.1	80.4	80.5	80.7	80.7	80.8	80.8	80.8	80.9	80.9	80.9	80.9	80.9	81.0	81.0
GE 3500	80.6	80.9	81.2	81.3	81.5	81.6	81.6	81.7	81.7	81.7	81.8	81.8	81.8	81.8	81.9	81.9
GE 3000	82.4	82.7	83.0	83.3	83.7	83.7	83.8	83.8	83.8	83.9	83.9	83.9	84.0	84.0	84.0	84.1
GE 2500	82.9	83.2	83.8	84.2	84.6	84.6	84.8	84.8	84.9	84.9	85.0	85.0	85.0	85.0	85.1	85.1
GE 2000	84.0	84.4	85.0	85.5	86.1	86.1	86.3	86.4	86.4	86.5	86.6	86.6	86.6	86.6	86.7	86.7
GE 1800	84.4	84.8	85.4	85.9	86.5	86.5	86.7	86.6	86.9	87.0	87.0	87.0	87.0	87.0	87.1	87.1
GE 1500	85.3	85.7	86.4	87.0	87.6	87.6	88.0	88.1	88.2	88.3	88.3	88.4	88.5	88.5	88.6	88.6
GE 1200	86.1	86.6	87.4	88.0	88.7	88.7	89.1	89.4	89.5	89.6	89.7	89.8	89.8	89.8	89.9	90.0
GE 1000	86.8	87.3	88.1	88.8	89.6	89.7	90.2	90.6	90.7	90.9	91.1	91.2	91.2	91.2	91.3	91.4
GE 900	87.0	87.5	88.4	89.1	89.9	90.0	90.5	91.0	91.2	91.4	91.6	91.7	91.8	91.8	91.9	91.9
GE 800	87.4	87.9	88.8	89.5	90.3	90.4	91.0	91.5	91.7	92.0	92.2	92.2	92.3	92.4	92.4	92.5
GE 700	87.8	88.3	89.3	90.0	90.9	91.0	91.5	92.1	92.3	92.6	92.9	93.0	93.1	93.1	93.2	93.2
GE 600	88.0	88.6	89.6	90.3	91.2	91.3	91.9	92.5	92.7	93.0	93.3	93.5	93.6	93.6	93.7	93.8
GE 500	88.6	89.2	90.2	90.9	92.0	92.1	92.7	93.3	93.5	94.1	94.5	94.8	95.2	95.2	95.3	95.4
GE 400	89.0	89.6	90.7	91.5	92.5	92.7	93.3	94.0	94.2	95.0	95.7	96.0	96.5	96.6	96.7	96.7
GE 300	89.2	89.9	91.0	91.8	93.0	93.1	93.9	94.6	94.7	95.6	96.4	96.8	97.4	97.5	97.6	97.7
GE 200	89.3	90.0	91.1	92.0	93.2	93.4	94.2	94.9	95.1	96.1	97.0	97.5	98.2	98.4	98.6	98.7
GE 100	89.3	90.0	91.1	92.0	93.2	93.4	94.2	94.9	95.1	96.1	97.2	97.7	98.4	98.6	99.0	99.4
GE 000	89.3	90.0	91.1	92.0	93.2	93.4	94.2	94.9	95.1	96.1	97.2	97.7	98.5	98.7	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 6761

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: MAR HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	57.4	57.4	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
GE 20000	61.2	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
GE 18000	61.4	61.4	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
GE 16000	61.4	61.4	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
GE 14000	62.4	62.4	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE 12000	63.3	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
GE 10000	65.3	65.3	65.3	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
GE 9000	65.5	65.5	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
GE 8000	68.3	68.3	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
GE 7000	68.6	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
GE 6000	69.0	69.0	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
GE 5000	70.4	70.4	70.4	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
GE 4500	70.9	70.9	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GE 4000	73.3	73.3	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
GE 3500	73.5	73.5	73.5	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
GE 3000	76.1	76.1	76.1	76.6	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
GE 2500	76.9	76.9	76.9	77.3	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 2000	78.8	78.8	78.9	79.4	79.8	79.8	79.8	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9
GE 1800	79.2	79.2	79.4	79.8	80.2	80.2	80.2	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3
GE 1500	80.2	80.3	80.5	81.0	81.4	81.4	81.4	81.4	81.4	81.5	81.6	81.6	81.6	81.6	81.6	81.6
GE 1200	80.6	80.8	81.0	81.5	81.9	81.9	81.9	81.9	81.9	82.0	82.2	82.2	82.2	82.2	82.2	82.2
GE 1000	82.2	82.5	82.8	83.3	83.8	83.9	83.9	83.9	83.9	84.1	84.2	84.2	84.3	84.3	84.3	84.3
GE 900	82.9	83.2	83.5	84.1	84.6	84.7	84.7	84.7	84.7	84.9	85.1	85.1	85.2	85.2	85.2	85.2
GE 800	83.9	84.2	84.7	85.3	85.8	85.9	85.9	85.9	85.9	86.1	86.2	86.2	86.3	86.3	86.3	86.3
GE 700	83.9	84.2	84.9	85.5	86.0	86.1	86.1	86.2	86.2	86.5	86.6	86.6	86.7	86.7	86.7	86.7
GE 600	84.5	84.8	85.6	86.1	86.7	86.8	86.8	86.9	86.9	87.1	87.3	87.4	87.5	87.5	87.5	87.5
GE 500	86.2	86.7	87.5	88.3	89.1	89.2	89.5	89.6	89.6	89.8	90.1	90.3	90.4	90.4	90.4	90.4
GE 400	86.9	87.4	88.3	89.1	90.0	90.1	90.4	90.9	90.9	91.3	91.7	92.3	92.4	92.4	92.4	92.6
GE 300	87.3	88.0	88.8	89.7	90.8	90.9	91.3	91.7	91.7	92.5	93.5	94.2	94.4	94.5	94.5	94.7
GE 200	87.3	88.0	88.8	89.7	90.8	90.9	91.4	92.3	92.3	93.5	94.6	95.4	96.1	96.2	96.7	97.5
GE 100	87.3	88.0	88.8	89.7	90.8	90.9	91.4	92.4	92.4	93.8	94.8	95.6	96.7	96.8	97.2	98.5
GE 000	87.3	88.0	88.8	89.7	90.8	90.9	91.4	92.4	92.4	93.9	94.9	95.7	96.9	97.2	97.6	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAR HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	54.3	54.3	54.4	54.4	54.8	54.8	54.8	54.8	54.8	54.9	54.9	54.9	55.1	55.1	55.1	55.1
GE 20000	60.3	60.3	60.4	60.4	60.9	60.9	60.9	60.9	60.9	61.0	61.0	61.0	61.1	61.1	61.1	61.1
GE 18000	60.3	60.3	60.4	60.4	60.9	60.9	60.9	60.9	60.9	61.0	61.0	61.0	61.1	61.1	61.1	61.1
GE 16000	60.6	60.6	60.8	60.8	61.2	61.2	61.2	61.2	61.2	61.3	61.3	61.3	61.4	61.4	61.4	61.4
GE 14000	61.7	61.7	61.8	61.8	62.3	62.3	62.3	62.3	62.3	62.4	62.4	62.4	62.5	62.5	62.5	62.5
GE 12000	62.6	62.6	62.7	62.7	63.1	63.1	63.1	63.1	63.1	63.2	63.2	63.2	63.3	63.3	63.3	63.3
GE 10000	65.1	65.1	65.2	65.2	65.6	65.6	65.6	65.6	65.6	65.7	65.7	65.7	65.8	65.8	65.8	65.8
GE 9000	65.1	65.1	65.2	65.2	65.6	65.6	65.6	65.6	65.6	65.7	65.7	65.7	65.8	65.8	65.8	65.8
GE 8000	67.6	67.6	67.7	67.7	68.2	68.2	68.2	68.2	68.2	68.3	68.3	68.3	68.4	68.4	68.4	68.4
GE 7000	68.0	68.0	68.1	68.1	68.5	68.5	68.5	68.5	68.5	68.6	68.6	68.6	68.7	68.7	68.7	68.7
GE 6000	69.1	69.2	69.4	69.4	69.8	69.8	69.8	69.8	69.8	69.9	69.9	69.9	70.0	70.0	70.0	70.0
GE 5000	70.6	70.9	71.0	71.0	71.4	71.4	71.4	71.4	71.4	71.5	71.5	71.5	71.6	71.6	71.6	71.7
GE 4500	71.3	71.5	71.6	71.6	72.0	72.0	72.0	72.0	72.0	72.2	72.2	72.2	72.3	72.3	72.3	72.4
GE 4000	72.4	72.6	72.7	72.7	73.1	73.1	73.1	73.1	73.1	73.3	73.3	73.3	73.4	73.4	73.4	73.5
GE 3500	73.2	73.4	73.5	73.5	74.0	74.0	74.0	74.0	74.0	74.2	74.2	74.2	74.3	74.3	74.3	74.4
GE 3000	75.2	75.4	75.6	75.6	76.0	76.0	76.0	76.0	76.0	76.2	76.2	76.2	76.3	76.3	76.3	76.5
GE 2500	76.5	76.7	76.9	76.9	77.3	77.3	77.3	77.3	77.3	77.5	77.5	77.5	77.7	77.7	77.7	77.8
GE 2000	78.7	78.9	79.1	79.1	79.6	79.6	79.6	79.6	79.6	79.8	79.8	79.8	80.0	80.0	80.0	80.1
GE 1800	79.0	79.2	79.5	79.5	79.9	79.9	79.9	79.9	79.9	80.1	80.1	80.1	80.3	80.3	80.3	80.4
GE 1500	80.0	80.2	80.4	80.5	81.0	81.0	81.3	81.3	81.3	81.5	81.5	81.5	81.7	81.7	81.7	81.8
GE 1200	80.6	81.1	81.3	81.5	81.9	81.9	82.3	82.3	82.3	82.5	82.5	82.5	82.7	82.7	82.7	82.8
GE 1000	82.3	82.7	83.1	83.4	83.9	84.0	84.6	84.6	84.6	85.1	85.2	85.2	85.5	85.5	85.5	85.6
GE 900	82.4	82.8	83.2	83.5	84.0	84.1	84.7	84.7	84.7	85.2	85.3	85.3	85.6	85.6	85.6	85.7
GE 800	82.9	83.3	83.8	84.2	84.6	84.7	85.4	85.4	85.4	85.9	86.0	86.0	86.3	86.3	86.3	86.5
GE 700	83.0	83.4	83.9	84.4	84.8	84.9	85.6	85.6	85.6	86.1	86.2	86.2	86.6	86.6	86.6	86.7
GE 600	83.8	84.2	84.7	85.3	85.7	85.8	86.6	86.6	86.6	87.1	87.5	87.6	88.0	88.0	88.0	88.1
GE 500	84.6	85.2	86.0	86.9	87.7	87.8	88.7	88.8	88.8	89.5	89.9	90.4	90.8	90.8	90.8	90.9
GE 400	85.1	85.6	86.7	87.5	88.6	88.7	89.8	89.9	89.9	90.5	91.3	92.2	92.5	92.5	92.6	92.9
GE 300	85.5	86.0	87.1	88.0	89.1	89.2	90.4	90.5	90.5	91.3	92.2	93.0	93.8	93.8	93.9	94.3
GE 200	86.2	86.8	88.0	88.9	90.3	90.4	91.7	91.9	91.9	93.0	93.9	94.8	95.9	95.9	96.2	96.9
GE 100	86.2	86.8	88.0	88.9	90.3	90.4	91.8	92.2	92.2	93.2	94.1	95.2	96.6	96.6	97.4	98.8
GE 000	86.2	86.8	88.0	88.9	90.3	90.4	91.8	92.2	92.2	93.2	94.1	95.2	96.6	96.6	97.5	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: MAR HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	48.7	48.8	49.1	49.7	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.9	49.9	49.9	50.0
GE 20000	56.5	56.7	57.0	57.5	57.7	57.7	57.7	57.7	57.7	57.8	57.8	57.8	58.0	58.0	58.0	58.1
GE 18000	56.5	56.7	57.0	57.5	57.7	57.7	57.7	57.7	57.7	57.8	57.8	57.8	58.0	58.0	58.0	58.1
GE 16000	56.7	56.9	57.2	57.7	58.0	58.0	58.0	58.0	58.0	58.1	58.1	58.1	58.2	58.2	58.2	58.3
GE 14000	57.3	57.5	57.8	58.4	58.6	58.6	58.6	58.6	58.6	58.7	58.7	58.7	58.8	58.8	58.8	58.9
GE 12000	58.9	59.1	59.5	60.0	60.2	60.2	60.2	60.2	60.2	60.3	60.3	60.3	60.4	60.4	60.4	60.5
GE 10000	61.9	62.2	62.5	63.0	63.2	63.2	63.2	63.2	63.2	63.3	63.3	63.4	63.5	63.5	63.5	63.7
GE 9000	62.6	62.8	63.1	63.7	63.9	63.9	63.9	63.9	63.9	64.0	64.0	64.1	64.2	64.2	64.2	64.3
GE 8000	65.8	66.1	66.5	67.0	67.2	67.2	67.2	67.2	67.2	67.3	67.3	67.4	67.5	67.5	67.5	67.6
GE 7000	66.2	66.7	67.0	67.5	67.7	67.7	67.7	67.7	67.7	67.8	67.8	68.0	68.1	68.1	68.1	68.2
GE 6000	67.4	67.8	68.2	68.7	68.9	68.9	68.9	68.9	68.9	69.0	69.0	69.1	69.2	69.2	69.2	69.4
GE 5000	68.8	69.2	69.6	70.2	70.4	70.4	70.4	70.4	70.4	70.5	70.5	70.6	70.8	70.8	70.8	70.9
GE 4500	69.0	69.5	69.8	70.4	70.6	70.6	70.6	70.6	70.6	70.8	70.8	70.9	71.0	71.0	71.2	71.3
GE 4000	71.2	71.6	71.9	72.6	72.8	72.8	72.8	72.8	72.8	72.9	72.9	73.0	73.1	73.1	73.3	73.4
GE 3500	72.0	72.5	72.8	73.4	73.7	73.7	73.7	73.7	73.7	73.8	73.8	73.9	74.0	74.0	74.2	74.3
GE 3000	73.3	73.9	74.2	75.1	75.3	75.3	75.3	75.3	75.3	75.4	75.4	75.5	75.6	75.6	75.8	75.9
GE 2500	74.6	75.4	75.7	76.6	76.9	76.9	76.9	76.9	76.9	77.0	77.0	77.1	77.2	77.2	77.4	77.5
GE 2000	76.2	77.1	77.4	78.4	78.7	78.7	78.7	78.7	78.7	78.8	78.8	78.9	79.0	79.0	79.2	79.4
GE 1800	76.7	77.5	77.8	78.8	79.2	79.2	79.2	79.2	79.2	79.4	79.4	79.5	79.6	79.6	79.8	79.9
GE 1500	77.3	78.2	78.5	79.5	80.0	80.0	80.1	80.2	80.2	80.3	80.3	80.4	80.5	80.5	80.8	80.9
GE 1200	77.8	78.7	79.0	80.1	80.6	80.6	80.9	81.0	81.0	81.1	81.1	81.2	81.3	81.3	81.5	81.6
GE 1000	79.1	80.1	80.6	82.0	82.9	83.1	83.4	83.7	83.7	83.9	83.9	84.1	84.2	84.2	84.4	84.5
GE 900	79.2	80.2	80.8	82.2	83.1	83.3	83.8	84.0	84.0	84.2	84.2	84.4	84.5	84.5	84.7	84.8
GE 800	79.6	80.5	81.1	82.6	83.5	83.8	84.2	84.4	84.4	84.8	84.8	85.1	85.3	85.3	85.5	85.6
GE 700	80.0	81.0	81.6	83.1	84.2	84.5	84.9	85.2	85.2	85.7	85.7	85.9	86.2	86.2	86.5	86.6
GE 600	80.4	81.4	82.0	83.5	84.8	85.1	85.6	85.9	85.9	86.5	86.5	86.7	87.1	87.1	87.3	87.4
GE 500	80.9	81.8	82.5	84.2	85.7	85.9	86.5	86.9	86.9	87.7	87.8	88.2	88.9	89.0	89.2	89.4
GE 400	81.2	82.3	83.0	84.7	86.6	86.8	87.5	88.1	88.2	89.8	90.2	90.6	91.6	91.7	91.9	92.0
GE 300	81.4	82.6	83.4	85.2	87.1	87.3	88.2	88.8	88.9	90.9	91.6	92.0	93.8	93.9	94.3	94.5
GE 200	81.6	82.8	83.8	85.6	87.6	87.8	88.9	89.7	89.8	92.2	92.9	93.4	95.6	95.9	96.7	97.0
GE 100	81.6	82.8	83.8	85.6	87.6	87.8	89.1	89.9	90.0	92.5	93.4	94.0	96.1	96.7	98.1	99.6
GE 000	81.6	82.8	83.8	85.6	87.6	87.8	89.1	89.9	90.0	92.5	93.4	94.0	96.1	96.7	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: MAR HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	51.3	51.3	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.6	51.6	51.6	51.6
GE 20000	58.9	59.0	59.1	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.5	59.5	59.6	59.6
GE 18000	59.2	59.4	59.5	59.5	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.8	59.8	59.9	59.9
GE 16000	59.5	59.6	59.7	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	60.0	60.0	60.1	60.1
GE 14000	60.1	60.2	60.3	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.6	60.6	60.8	60.8
GE 12000	62.0	62.2	62.3	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.6	62.6	62.7	62.7
GE 10000	64.2	64.3	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.6	64.8	64.8	64.9	64.9
GE 9000	64.3	64.4	64.5	64.5	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.7	64.9	64.9	65.1	65.1
GE 8000	67.3	67.4	67.5	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.7	68.0	68.0	68.1	68.1
GE 7000	68.1	68.2	68.3	68.3	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.6	68.8	68.8	68.9	68.9
GE 6000	68.6	68.7	68.8	68.8	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.1	69.4	69.4	69.5	69.5
GE 5000	70.2	70.3	70.4	70.4	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.8	71.0	71.0	71.1	71.1
GE 4500	71.0	71.1	71.2	71.3	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.6	71.8	71.8	71.9	71.9
GE 4000	73.3	73.4	73.5	73.7	73.9	73.9	73.9	73.9	73.9	73.9	73.9	74.0	74.2	74.2	74.3	74.3
GE 3500	74.2	74.3	74.4	74.5	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.8	75.1	75.1	75.2	75.2
GE 3000	76.1	76.2	76.7	76.9	77.1	77.1	77.1	77.1	77.2	77.2	77.2	77.3	77.5	77.5	77.6	77.6
GE 2500	77.2	77.3	77.7	78.0	78.2	78.2	78.3	78.3	78.4	78.5	78.5	78.6	78.8	78.8	78.9	78.9
GE 2000	78.2	78.3	78.7	79.1	79.4	79.4	79.5	79.6	79.7	79.9	79.9	80.0	80.2	80.2	80.3	80.3
GE 1800	78.5	78.6	79.0	79.5	79.7	79.7	79.8	79.9	80.0	80.2	80.2	80.3	80.5	80.5	80.6	80.6
GE 1500	79.2	79.5	80.1	80.9	81.1	81.1	81.2	81.4	81.5	81.8	81.8	81.9	82.3	82.3	82.4	82.4
GE 1200	80.0	80.2	81.1	82.3	82.7	82.9	83.2	83.4	83.5	84.0	84.0	84.1	84.4	84.4	84.5	84.5
GE 1000	81.3	81.5	82.4	83.5	84.0	84.3	84.8	85.4	85.7	86.2	86.2	86.3	86.7	86.7	86.8	86.8
GE 900	81.6	81.8	82.7	83.9	84.3	84.6	85.2	85.7	86.0	86.6	86.6	86.7	87.0	87.0	87.1	87.1
GE 800	81.9	82.2	83.2	84.4	84.8	85.2	85.7	86.5	86.8	87.3	87.3	87.4	87.7	87.7	87.8	87.8
GE 700	82.2	82.4	83.4	84.6	85.1	85.4	85.9	86.8	87.1	88.0	88.0	88.1	88.6	88.7	88.8	88.8
GE 600	82.8	83.0	84.1	85.4	85.8	86.2	86.9	87.7	88.1	89.0	89.0	89.1	89.7	89.8	89.9	89.9
GE 500	83.3	83.5	84.8	86.5	86.9	87.3	88.3	89.5	89.8	90.9	91.1	91.2	91.7	91.8	91.9	91.9
GE 400	83.4	83.8	85.3	87.1	88.2	88.6	89.6	91.1	91.4	92.9	93.3	93.5	94.1	94.2	94.3	94.3
GE 300	83.8	84.1	85.7	87.8	88.9	89.4	90.3	91.8	92.2	93.7	94.1	94.4	95.1	95.3	95.8	95.9
GE 200	83.8	84.1	85.7	87.8	88.9	89.5	90.4	92.2	92.5	94.1	94.8	95.5	96.5	96.8	97.4	98.2
GE 100	83.8	84.1	85.7	87.8	89.7	89.8	90.8	92.5	92.8	94.5	95.3	96.0	97.0	97.5	98.2	100.0
GE 000	83.8	84.1	85.7	87.8	89.7	89.8	90.8	92.5	92.8	94.5	95.3	96.0	97.0	97.5	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS 730

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625      STATION NAME: ELLSWORTH AFB/RAPID CITY SD      PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7      MONTH: MAR      HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
GE 20000	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
GE 18000	58.1	58.1	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
GE 16000	58.1	58.1	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
GE 14000	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 12000	60.2	60.2	60.4	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
GE 10000	64.0	64.0	64.2	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
GE 9000	64.6	64.6	64.8	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
GE 8000	67.1	67.1	67.3	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
GE 7000	67.5	67.5	67.7	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 6000	68.6	68.6	68.8	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
GE 5000	71.2	71.2	71.4	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
GE 4500	72.3	72.3	72.5	72.7	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
GE 4000	75.7	75.7	75.9	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
GE 3500	76.5	76.5	76.7	76.9	77.0	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
GE 3000	79.4	79.4	79.8	80.1	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
GE 2500	79.6	79.7	80.2	80.6	80.9	80.9	81.1	81.1	81.1	81.5	81.5	81.5	81.5	81.5	81.5	81.5
GE 2000	81.0	81.2	81.7	82.3	82.6	82.6	82.8	82.8	82.8	83.3	83.3	83.3	83.3	83.3	83.3	83.3
GE 1800	81.4	81.6	82.2	82.7	83.0	83.0	83.2	83.2	83.2	83.8	83.8	83.8	83.8	83.8	83.8	83.8
GE 1500	83.4	83.8	84.3	84.9	85.4	85.4	85.7	85.7	85.7	86.2	86.3	86.5	86.5	86.5	86.5	86.5
GE 1200	84.2	84.5	85.1	85.9	86.3	86.3	86.7	86.7	86.7	87.2	87.3	87.4	87.4	87.4	87.4	87.4
GE 1000	85.4	85.8	86.5	87.3	88.0	88.1	88.6	88.9	89.0	90.0	90.1	90.2	90.2	90.2	90.2	90.2
GE 900	85.6	86.0	86.8	87.6	88.3	88.4	88.9	89.2	89.4	90.4	90.5	90.9	90.9	90.9	90.9	90.9
GE 800	86.1	86.7	87.5	88.6	89.4	89.5	90.0	90.3	90.4	91.5	91.6	92.0	92.0	92.0	92.0	92.0
GE 700	86.2	86.8	87.6	88.7	89.5	89.6	90.1	90.4	90.5	91.9	92.0	92.6	92.7	92.7	92.7	92.7
GE 600	86.5	87.0	87.8	88.9	89.9	90.0	90.5	90.9	91.0	92.8	92.9	93.4	93.5	93.5	93.5	93.5
GE 500	86.8	87.3	88.2	89.5	90.4	90.6	91.3	92.0	92.2	94.1	94.2	94.7	94.8	94.8	95.2	95.2
GE 400	87.0	87.6	88.5	89.8	91.0	91.2	91.9	92.7	92.8	94.8	95.1	95.6	95.8	95.8	96.1	96.5
GE 300	87.3	88.1	88.9	90.2	91.4	91.6	92.4	93.3	93.5	95.9	96.1	96.8	97.3	97.3	97.6	98.0
GE 200	87.3	88.1	88.9	90.2	91.4	91.6	92.4	93.4	93.7	96.1	96.6	97.4	98.1	98.4	98.8	99.6
GE 100	87.3	88.1	88.9	90.2	91.5	91.7	92.5	93.5	93.8	96.2	96.7	97.5	98.2	98.5	98.9	100.0
GE 000	87.3	88.1	88.9	90.2	91.5	91.7	92.5	93.5	93.8	96.2	96.7	97.5	98.2	98.5	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS      930



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAR HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	43.5	43.5	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
GE 20000	55.3	55.3	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5
GE 18000	55.5	55.5	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.7
GE 16000	55.6	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.8	55.8	55.8	55.8	55.8	55.8	55.8
GE 14000	56.5	56.5	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.7	56.7	56.7	56.7	56.7	56.7	56.7
GE 12000	58.6	58.6	58.7	58.7	58.8	58.8	58.8	58.8	58.8	58.9	58.9	58.9	58.9	58.9	58.9	58.9
GE 10000	63.1	63.1	63.2	63.2	63.3	63.3	63.3	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4
GE 9000	63.4	63.4	63.7	63.7	63.8	63.8	63.8	63.8	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 8000	66.7	66.7	66.9	66.9	67.0	67.0	67.0	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.2	67.2
GE 7000	67.6	67.6	67.8	67.8	68.0	68.0	68.0	68.0	68.0	68.1	68.1	68.1	68.1	68.1	68.2	68.2
GE 6000	68.8	68.8	69.0	69.0	69.1	69.1	69.1	69.1	69.1	69.2	69.2	69.2	69.2	69.4	69.5	69.5
GE 5000	71.2	71.2	71.4	71.4	71.5	71.5	71.5	71.5	71.5	71.6	71.6	71.6	71.6	71.7	71.8	71.8
GE 4500	72.4	72.4	72.6	72.6	72.7	72.7	72.8	72.8	72.8	72.9	72.9	72.9	72.9	73.0	73.1	73.1
GE 4000	77.1	77.1	77.3	77.3	77.4	77.4	77.5	77.5	77.5	77.6	77.6	77.6	77.6	77.7	77.8	77.8
GE 3500	78.5	78.5	78.7	78.7	78.8	78.8	78.9	78.9	78.9	79.0	79.0	79.0	79.0	79.1	79.2	79.2
GE 3000	80.3	80.4	80.6	80.8	81.1	81.1	81.2	81.2	81.2	81.3	81.3	81.3	81.3	81.4	81.5	81.5
GE 2500	81.9	82.2	82.5	82.7	83.0	83.0	83.2	83.3	83.3	83.5	83.5	83.5	83.5	83.7	83.8	83.8
GE 2000	84.3	84.5	84.8	85.1	85.4	85.4	85.6	85.7	85.7	85.9	85.9	85.9	85.9	86.0	86.1	86.1
GE 1800	84.5	84.7	85.1	85.3	85.6	85.6	85.8	86.1	86.1	86.3	86.3	86.3	86.3	86.5	86.6	86.6
GE 1500	85.8	86.0	86.5	86.9	87.2	87.2	87.4	87.7	87.7	88.1	88.1	88.1	88.1	88.2	88.3	88.3
GE 1200	87.1	87.3	87.7	88.3	88.7	88.8	89.0	89.4	89.4	89.7	89.7	89.7	89.7	89.8	89.9	89.9
GE 1000	87.8	88.1	88.5	89.2	89.9	90.0	90.5	91.0	91.0	91.4	91.5	91.7	91.8	91.9	92.0	92.0
GE 900	87.8	88.1	88.5	89.2	89.9	90.0	90.5	91.0	91.0	91.4	91.5	91.7	91.8	91.9	92.0	92.0
GE 800	88.3	88.5	88.9	89.8	90.5	90.6	91.2	91.6	91.7	92.2	92.3	92.5	92.6	92.7	92.8	92.8
GE 700	88.4	88.6	89.0	89.9	90.6	90.8	91.3	91.7	91.9	92.5	92.6	92.8	93.1	93.2	93.3	93.4
GE 600	88.6	88.8	89.4	90.2	91.0	91.1	91.6	92.0	92.3	93.1	93.3	93.7	94.1	94.2	94.3	94.4
GE 500	89.0	89.2	89.8	90.6	91.5	91.7	92.5	93.0	93.2	94.5	94.8	95.2	95.6	95.7	95.9	96.0
GE 400	89.2	89.5	90.0	90.9	91.7	91.9	92.9	93.4	93.8	95.3	95.8	96.1	96.8	96.9	97.1	97.3
GE 300	89.5	89.7	90.2	91.1	91.9	92.2	93.1	93.7	94.0	95.5	96.0	96.5	97.1	97.2	97.4	97.6
GE 200	89.5	89.7	90.2	91.1	91.9	92.2	93.4	94.0	94.3	95.9	96.5	97.3	98.4	98.8	99.1	99.7
GE 100	89.5	89.7	90.2	91.1	91.9	92.2	93.4	94.0	94.3	95.9	96.5	97.3	98.4	98.8	99.1	100.0
GE 000	89.5	89.7	90.2	91.1	91.9	92.2	93.4	94.0	94.3	95.9	96.5	97.3	98.4	98.8	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625      STATION NAME: ELLSWORTH AFB/RAPID CITY SD      PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7      MONTH: MAR      HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	51.2	51.2	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
GE 20000	57.8	57.8	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
GE 18000	58.2	58.2	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
GE 16000	58.3	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
GE 14000	59.1	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
GE 12000	61.1	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
GE 10000	64.7	64.7	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
GE 9000	65.9	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
GE 8000	69.2	69.2	69.5	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
GE 7000	69.9	69.9	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
GE 6000	70.5	70.5	70.8	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.0	71.0	71.0	71.0	71.0
GE 5000	73.5	73.5	73.8	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.1	74.1	74.1	74.1	74.1
GE 4500	74.7	74.7	74.9	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.3	75.3	75.3	75.3	75.3
GE 4000	77.1	77.1	77.3	77.4	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.6	77.6	77.6	77.6	77.6
GE 3500	78.2	78.2	78.5	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.8	78.8	78.8	78.8	78.8
GE 3000	80.1	80.3	80.6	81.0	81.1	81.2	81.3	81.3	81.3	81.3	81.3	81.4	81.4	81.4	81.4	81.4
GE 2500	81.8	82.0	82.6	83.0	83.1	83.2	83.5	83.5	83.5	83.5	83.5	83.7	83.7	83.7	83.7	83.7
GE 2000	83.4	83.7	84.3	84.8	85.1	85.2	85.6	85.6	85.6	85.6	85.6	85.7	85.7	85.7	85.7	85.7
GE 1800	83.8	84.0	84.6	85.2	85.5	85.7	86.1	86.2	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3
GE 1500	84.9	85.2	85.8	86.3	86.7	86.9	87.3	87.4	87.4	87.4	87.5	87.6	87.6	87.6	87.6	87.6
GE 1200	85.6	85.8	86.6	87.2	87.5	87.7	88.2	88.3	88.3	88.3	88.4	88.6	88.6	88.6	88.6	88.6
GE 1000	85.9	86.2	87.0	87.6	88.0	88.2	88.6	88.7	88.8	88.8	89.0	89.2	89.2	89.2	89.2	89.2
GE 900	86.1	86.6	87.3	88.1	88.4	88.6	89.0	89.1	89.2	89.2	89.5	89.7	89.7	89.8	89.8	89.8
GE 800	87.0	87.4	88.3	89.0	89.4	89.6	90.1	90.2	90.3	90.5	90.8	91.0	91.0	91.1	91.1	91.2
GE 700	87.1	87.5	88.4	89.2	89.6	89.9	90.4	90.5	90.6	91.1	91.3	91.5	91.5	91.6	91.6	91.9
GE 600	87.1	87.5	88.4	89.5	89.9	90.2	90.8	90.9	91.0	91.5	91.8	92.2	92.3	92.4	92.4	92.7
GE 500	87.7	88.3	89.2	90.4	91.0	91.3	92.3	92.6	92.7	93.3	93.7	94.0	94.1	94.2	94.2	94.5
GE 400	88.0	88.5	89.5	90.8	91.3	91.6	92.6	92.9	93.0	93.8	94.6	95.3	95.6	95.7	95.7	96.0
GE 300	88.1	88.6	89.6	91.0	91.5	91.8	92.8	93.2	93.3	94.2	95.1	95.7	96.0	96.1	96.1	96.5
GE 200	88.3	88.8	89.8	91.2	91.8	92.2	93.2	93.8	93.9	94.9	95.9	96.7	97.3	97.7	98.2	98.9
GE 100	88.3	88.8	89.8	91.2	91.8	92.2	93.2	93.9	94.0	95.2	96.1	97.0	97.6	98.1	98.5	99.5
GE 000	88.3	88.8	89.8	91.2	91.8	92.2	93.2	93.9	94.0	95.2	96.1	97.0	97.6	98.1	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS      930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAR HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	57.3	57.3	57.3	57.3	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
GE 20000	61.8	61.8	61.8	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
GE 18000	62.3	62.3	62.3	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
GE 16000	62.8	62.8	62.8	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
GE 14000	63.5	63.5	63.5	63.5	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
GE 12000	64.2	64.2	64.2	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
GE 10000	67.4	67.4	67.4	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
GE 9000	67.7	67.7	67.7	67.7	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
GE 8000	70.1	70.1	70.1	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
GE 7000	70.5	70.5	70.5	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
GE 6000	71.3	71.3	71.3	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
GE 5000	73.7	73.7	73.7	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
GE 4500	74.4	74.4	74.4	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
GE 4000	76.3	76.5	76.5	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.7	76.7
GE 3500	77.0	77.1	77.1	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.3	77.3	77.3
GE 3000	78.8	78.9	78.9	79.0	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.6	79.6	79.6
GE 2500	79.9	80.0	80.1	80.2	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.8	80.8	80.8
GE 2000	81.1	81.2	81.3	81.4	81.8	81.8	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.2	82.2	82.2
GE 1800	81.2	81.4	81.5	81.6	82.0	82.0	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.4	82.4	82.4
GE 1500	81.7	81.9	82.0	82.2	82.6	82.6	82.8	82.8	82.8	82.8	82.9	82.9	82.9	83.0	83.0	83.0
GE 1200	82.5	82.7	82.8	82.9	83.4	83.4	83.7	83.8	83.8	83.8	83.9	83.9	83.9	84.0	84.0	84.0
GE 1000	83.1	83.3	83.4	83.5	84.1	84.1	84.3	84.4	84.5	84.7	84.8	84.8	84.9	85.1	85.1	85.1
GE 900	83.3	83.7	83.8	83.9	84.4	84.4	84.6	84.7	84.8	85.2	85.4	85.4	85.5	85.6	85.6	85.6
GE 800	84.2	84.6	84.7	84.8	85.4	85.4	85.6	85.7	85.8	86.1	86.7	86.9	87.0	87.1	87.1	87.1
GE 700	84.6	85.1	85.2	85.3	85.8	85.8	86.2	86.3	86.5	86.8	87.5	87.8	88.0	88.1	88.1	88.1
GE 600	85.4	85.8	85.9	86.3	86.9	86.9	87.3	87.4	87.5	87.8	88.6	88.9	89.0	89.1	89.1	89.1
GE 500	86.8	87.2	87.4	87.8	88.6	88.6	89.5	89.6	89.7	90.2	91.1	91.5	91.6	91.7	91.8	91.8
GE 400	87.4	87.8	88.1	88.7	89.6	89.6	90.6	90.8	90.9	91.5	92.6	93.3	93.4	93.5	93.7	93.7
GE 300	88.0	88.4	88.8	89.5	90.3	90.3	91.4	91.5	91.6	92.4	93.7	94.5	94.6	94.7	94.8	94.8
GE 200	88.3	88.7	89.2	89.9	90.8	90.8	91.8	92.2	92.3	93.1	94.7	95.8	96.5	96.7	97.6	98.1
GE 100	88.3	88.7	89.2	89.9	90.9	90.9	91.9	92.3	92.4	93.3	94.9	96.0	96.7	96.9	98.2	98.7
GE 000	88.3	88.7	89.2	89.9	90.9	90.9	91.9	92.3	92.4	93.5	95.2	96.2	96.9	97.1	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: MAR HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	51.1	51.1	51.2	51.3	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.5
GE 20000	58.7	58.8	58.9	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.2	59.2	59.2	59.2
GE 18000	58.9	59.0	59.1	59.2	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.4	59.4	59.4	59.4
GE 16000	59.1	59.2	59.3	59.3	59.4	59.4	59.4	59.4	59.4	59.5	59.5	59.5	59.5	59.5	59.6	59.6
GE 14000	59.9	59.9	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.4
GE 12000	61.4	61.4	61.5	61.6	61.7	61.7	61.7	61.7	61.7	61.8	61.8	61.8	61.8	61.8	61.9	61.9
GE 10000	64.5	64.5	64.6	64.7	64.8	64.8	64.8	64.8	64.8	64.9	64.9	64.9	65.0	65.0	65.0	65.0
GE 9000	64.9	64.9	65.1	65.1	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.4	65.4	65.4	65.4
GE 8000	67.8	67.8	68.0	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.3	68.3	68.3	68.3	68.4
GE 7000	68.3	68.4	68.5	68.6	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.9	68.9	68.9	68.9	69.0
GE 6000	69.2	69.3	69.4	69.5	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.8	69.8	69.8	69.9	69.9
GE 5000	71.2	71.3	71.5	71.6	71.7	71.7	71.7	71.7	71.7	71.8	71.8	71.8	71.9	71.9	71.9	71.9
GE 4500	72.0	72.1	72.2	72.4	72.5	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.7	72.7	72.8	72.8
GE 4000	74.6	74.7	74.8	75.0	75.1	75.1	75.1	75.1	75.1	75.2	75.2	75.2	75.3	75.3	75.4	75.4
GE 3500	75.4	75.5	75.7	75.8	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.1	76.1	76.2	76.2	76.3
GE 3000	77.4	77.6	77.8	78.1	78.4	78.4	78.4	78.4	78.4	78.5	78.5	78.5	78.6	78.6	78.7	78.7
GE 2500	78.5	78.8	79.1	79.4	79.7	79.7	79.8	79.8	79.9	80.0	80.0	80.0	80.1	80.1	80.2	80.2
GE 2000	80.2	80.5	80.8	81.2	81.5	81.5	81.7	81.7	81.7	81.9	81.9	81.9	82.0	82.0	82.1	82.1
GE 1800	80.5	80.8	81.1	81.5	81.9	81.9	82.1	82.1	82.2	82.3	82.3	82.4	82.4	82.5	82.5	82.5
GE 1500	81.6	81.9	82.3	82.8	83.2	83.2	83.4	83.5	83.5	83.7	83.8	83.8	83.9	83.9	84.0	84.0
GE 1200	82.3	82.6	83.1	83.7	84.2	84.2	84.5	84.6	84.6	84.8	84.9	84.9	85.0	85.0	85.1	85.1
GE 1000	83.4	83.8	84.3	85.0	85.6	85.7	86.1	86.3	86.4	86.8	86.9	87.0	87.1	87.1	87.2	87.2
GE 900	83.6	84.0	84.6	85.3	85.9	86.0	86.4	86.7	86.7	87.1	87.2	87.4	87.5	87.6	87.6	87.6
GE 800	84.2	84.7	85.3	86.1	86.7	86.8	87.3	87.5	87.6	88.1	88.2	88.4	88.5	88.6	88.6	88.7
GE 700	84.4	84.9	85.5	86.3	87.0	87.1	87.6	87.8	88.0	88.6	88.7	88.9	89.2	89.2	89.3	89.4
GE 600	84.9	85.3	86.0	86.9	87.6	87.8	88.3	88.5	88.6	89.4	89.6	89.9	90.1	90.2	90.3	90.3
GE 500	85.7	86.2	86.9	88.0	88.9	89.1	89.8	90.2	90.3	91.3	91.6	91.9	92.2	92.3	92.4	92.5
GE 400	86.0	86.6	87.4	88.6	89.6	89.8	90.7	91.2	91.3	92.5	93.1	93.6	94.0	94.1	94.2	94.4
GE 300	86.3	86.9	87.8	89.0	90.1	90.3	91.2	91.8	92.0	93.3	94.0	94.6	95.3	95.3	95.6	95.8
GE 200	86.5	87.1	88.1	89.3	90.4	90.7	91.7	92.4	92.6	94.1	95.0	95.8	96.8	97.1	97.6	98.2
GE 100	86.5	87.1	88.1	89.3	90.5	90.7	91.8	92.6	92.7	94.3	95.2	96.1	97.2	97.5	98.2	99.4
GE 000	86.5	87.1	88.1	89.3	90.5	90.7	91.8	92.6	92.7	94.4	95.3	96.1	97.2	97.6	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: APR HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	64.1	64.1	64.1	64.1	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
GE 20000	69.1	69.1	69.1	69.1	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
GE 18000	69.1	69.1	69.1	69.1	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
GE 16000	69.1	69.1	69.1	69.1	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
GE 14000	69.9	69.9	69.9	69.9	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
GE 12000	70.8	70.8	70.8	70.8	70.8	70.8	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
GE 10000	73.6	73.6	73.6	73.6	73.6	73.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
GE 9000	74.7	74.7	74.7	74.7	74.7	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
GE 8000	78.2	78.2	78.2	78.2	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
GE 7000	78.8	78.8	78.8	78.8	78.8	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
GE 6000	79.2	79.2	79.2	79.2	79.2	79.2	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
GE 5000	81.0	81.1	81.1	81.1	81.1	81.1	81.2	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
GE 4500	82.3	82.4	82.4	82.4	82.4	82.4	82.6	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
GE 4000	83.9	84.0	84.0	84.0	84.0	84.0	84.1	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
GE 3500	84.7	84.8	84.8	84.8	84.8	84.8	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
GE 3000	86.3	86.4	86.6	86.6	86.6	86.6	86.7	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
GE 2500	87.1	87.2	87.4	87.4	87.4	87.4	87.6	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
GE 2000	87.7	87.9	88.1	88.1	88.1	88.1	88.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
GE 1800	87.9	88.1	88.3	88.3	88.3	88.3	88.4	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
GE 1500	88.6	88.8	89.0	89.1	89.1	89.1	89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
GE 1200	89.2	89.4	89.8	89.9	89.9	89.9	90.0	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
GE 1000	90.0	90.2	90.6	90.8	90.8	90.8	90.9	91.1	91.1	91.1	91.1	91.1	91.2	91.2	91.2	91.2
GE 900	90.2	90.4	90.8	91.0	91.0	91.0	91.1	91.3	91.3	91.3	91.3	91.3	91.4	91.4	91.4	91.4
GE 800	90.2	90.4	90.8	91.0	91.0	91.0	91.1	91.3	91.3	91.4	91.4	91.4	91.6	91.6	91.6	91.6
GE 700	90.6	90.9	91.2	91.6	91.8	91.8	91.9	92.1	92.2	92.4	92.4	92.4	92.6	92.6	92.6	92.6
GE 600	90.6	90.9	91.2	91.6	92.0	92.0	92.1	92.3	92.4	92.7	92.8	92.8	92.9	92.9	92.9	92.9
GE 500	91.6	91.9	92.2	92.6	93.3	93.3	93.4	93.7	93.8	94.0	94.1	94.1	94.2	94.2	94.2	94.2
GE 400	92.3	92.8	93.1	93.4	94.2	94.2	94.4	94.7	94.8	95.7	95.8	95.8	95.9	95.9	96.0	96.0
GE 300	92.9	93.3	93.7	94.0	94.9	94.9	95.2	95.4	95.8	96.7	96.8	96.8	97.3	97.3	97.6	97.6
GE 200	93.1	93.9	94.3	94.9	95.8	95.8	96.1	96.4	96.8	97.7	98.0	98.3	99.3	99.4	99.7	100.0
GE 100	93.1	93.9	94.3	94.9	95.8	95.8	96.1	96.4	96.8	97.7	98.0	98.3	99.3	99.4	99.7	100.0
GE 000	93.1	93.9	94.3	94.9	95.8	95.8	96.1	96.4	96.8	97.7	98.0	98.3	99.3	99.4	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625      STATION NAME: ELLSWORTH AFB/RAPID CITY SD      PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7      MONTH: APR      HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	61.3	61.3	61.7	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
GE 20000	65.3	65.3	65.7	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
GE 18000	65.3	65.3	65.7	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
GE 16000	65.3	65.3	65.7	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
GE 14000	66.4	66.4	66.8	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
GE 12000	67.4	67.4	67.8	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 10000	70.9	70.9	71.2	71.4	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
GE 9000	71.8	71.8	72.1	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
GE 8000	74.6	74.6	74.9	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
GE 7000	75.0	75.0	75.3	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
GE 6000	75.9	75.9	76.2	76.4	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
GE 5000	77.8	77.8	78.2	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
GE 4500	78.6	78.6	79.0	79.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
GE 4000	81.1	81.1	81.6	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
GE 3500	81.8	81.8	82.2	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
GE 3000	84.3	84.3	84.8	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
GE 2500	84.8	84.8	85.2	85.7	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
GE 2000	85.2	85.2	85.7	86.1	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 1800	85.2	85.2	85.7	86.1	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 1500	85.9	85.9	86.3	86.8	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
GE 1200	86.9	86.9	87.3	87.8	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
GE 1000	87.4	87.4	87.9	88.3	88.9	88.9	89.0	89.0	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 900	87.4	87.4	87.9	88.3	88.9	88.9	89.0	89.0	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 800	87.7	87.7	88.1	88.6	89.1	89.1	89.2	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3
GE 700	88.4	88.4	88.9	89.3	90.0	90.0	90.1	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3
GE 600	88.7	88.7	89.2	89.8	90.7	90.7	90.8	90.9	90.9	91.0	91.1	91.1	91.1	91.1	91.1	91.1
GE 500	89.6	89.7	90.3	91.0	92.0	92.0	92.2	92.3	92.3	92.6	92.7	92.7	92.7	92.7	92.8	92.8
GE 400	91.1	91.7	92.4	93.2	94.4	94.6	94.8	95.0	95.0	95.7	95.8	95.8	95.8	95.8	96.0	96.0
GE 300	91.7	92.2	93.0	93.8	95.0	95.1	95.3	95.8	96.1	97.2	97.8	97.8	97.8	97.8	98.0	98.0
GE 200	92.0	92.7	93.6	94.3	95.7	95.8	96.1	96.6	96.9	98.0	98.8	99.0	99.1	99.3	99.8	100.0
GE 100	92.0	92.7	93.6	94.3	95.7	95.8	96.1	96.6	96.9	98.0	98.8	99.0	99.1	99.3	99.8	100.0
GE 000	92.0	92.7	93.6	94.3	95.7	95.8	96.1	96.6	96.9	98.0	98.8	99.0	99.1	99.3	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS      900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: APR HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	52.8	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	53.0	53.0
GE 20000	62.2	62.2	62.3	62.3	62.6	62.6	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.8	62.8
GE 18000	63.3	63.3	63.4	63.4	63.7	63.7	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.9	63.9
GE 16000	63.4	63.4	63.6	63.6	63.8	63.8	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	64.0	64.0
GE 14000	64.3	64.3	64.4	64.4	64.7	64.7	64.7	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.9	64.9
GE 12000	65.8	65.8	65.9	65.9	66.1	66.1	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.3	66.3
GE 10000	69.2	69.2	69.3	69.3	69.6	69.6	69.6	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.8	69.8
GE 9000	70.4	70.4	70.6	70.6	70.8	70.8	70.8	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.0	71.0
GE 8000	74.4	74.7	74.8	74.8	75.0	75.0	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.2	75.2
GE 7000	75.0	75.2	75.3	75.3	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.8	75.8
GE 6000	75.4	75.7	75.8	75.8	76.0	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.2	76.2
GE 5000	77.7	77.9	78.0	78.0	78.2	78.3	78.4	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.7	78.7
GE 4500	77.9	78.1	78.2	78.2	78.4	78.6	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.9	78.9
GE 4000	80.0	80.2	80.4	80.6	80.9	81.0	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.6	81.6
GE 3500	80.6	80.8	81.0	81.1	81.4	81.6	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	82.1	82.1
GE 3000	81.2	81.4	81.7	81.8	82.1	82.2	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.8	82.8
GE 2500	81.6	81.8	82.0	82.2	82.6	82.7	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	83.2	83.2
GE 2000	82.8	83.0	83.3	83.7	84.1	84.2	84.3	84.4	84.6	84.6	84.6	84.6	84.6	84.6	84.9	84.9
GE 1800	82.9	83.1	83.4	83.8	84.2	84.3	84.4	84.6	84.7	84.7	84.7	84.7	84.7	84.7	85.0	85.0
GE 1500	84.0	84.2	84.6	84.9	85.3	85.4	85.7	85.8	85.9	85.9	85.9	85.9	85.9	85.9	86.2	86.2
GE 1200	85.0	85.2	85.6	86.0	86.4	86.6	86.8	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.3	87.3
GE 1000	86.7	86.9	87.3	87.8	88.3	88.6	89.0	89.1	89.2	89.3	89.3	89.3	89.3	89.3	89.7	89.7
GE 900	87.0	87.2	87.7	88.1	88.7	88.9	89.3	89.4	89.6	89.7	89.7	89.7	89.7	89.7	90.0	90.0
GE 800	88.1	88.3	88.8	89.2	89.8	90.0	90.6	90.7	90.8	90.9	90.9	90.9	90.9	90.9	91.2	91.2
GE 700	88.6	88.9	89.3	89.8	90.3	90.6	91.1	91.3	91.4	91.7	91.8	91.8	91.9	91.9	92.3	92.3
GE 600	88.8	89.3	89.8	90.6	91.1	91.3	91.9	92.1	92.2	92.4	92.6	92.6	92.7	92.7	93.1	93.1
GE 500	88.9	89.4	89.9	90.7	91.3	91.6	92.1	92.3	92.4	92.7	92.9	92.9	93.0	93.0	93.4	93.4
GE 400	89.7	90.4	90.9	91.9	92.7	92.9	93.4	93.7	93.8	94.6	94.8	94.8	94.9	94.9	95.3	95.4
GE 300	89.8	90.6	91.0	92.1	93.0	93.2	93.9	94.1	94.2	95.1	95.3	95.7	95.9	95.9	96.4	96.6
GE 200	90.0	90.8	91.3	92.4	93.3	93.6	94.2	94.7	94.8	96.1	96.7	97.3	98.0	98.1	99.1	99.3
GE 100	90.0	90.8	91.3	92.4	93.3	93.6	94.2	94.7	94.8	96.1	96.7	97.3	98.0	98.1	99.3	99.8
GE 000	90.0	90.8	91.3	92.4	93.3	93.6	94.2	94.7	94.8	96.1	96.7	97.3	98.0	98.1	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: APR HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	50.0	50.0	50.1	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.4	50.4
GE 20000	60.6	60.6	60.7	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	61.1	61.1
GE 18000	60.8	60.8	60.9	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.3	61.3
GE 16000	60.9	60.9	61.0	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.4	61.4
GE 14000	62.9	62.9	63.0	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.4	63.4
GE 12000	64.3	64.3	64.4	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.9	64.9
GE 10000	67.6	67.6	67.7	67.8	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	68.2	68.2
GE 9000	68.2	68.2	68.3	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.9	68.9
GE 8000	71.6	71.6	71.8	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.3	72.3
GE 7000	72.0	72.0	72.2	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.8	72.8
GE 6000	72.8	72.8	73.0	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.6	73.6
GE 5000	74.9	74.9	75.1	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.7	75.7
GE 4500	75.3	75.3	75.6	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	76.1	76.1
GE 4000	77.8	77.8	78.0	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.6	78.6
GE 3500	79.3	79.3	79.6	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	80.1	80.1
GE 3000	81.2	81.2	81.6	82.0	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.4	82.4
GE 2500	82.1	82.1	82.4	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.3	83.3
GE 2000	83.9	83.9	84.2	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	85.2	85.2
GE 1800	83.9	83.9	84.2	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	85.2	85.2
GE 1500	85.7	85.7	86.0	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	87.1	87.1
GE 1200	87.4	87.4	87.9	88.4	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	89.1	89.1
GE 1000	88.7	88.7	89.3	90.1	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	91.0	91.0
GE 900	88.9	88.9	89.7	90.4	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.3	91.3
GE 800	89.6	89.7	90.4	91.2	91.7	91.7	91.8	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.3	92.3
GE 700	89.9	90.1	90.9	91.7	92.2	92.2	92.3	92.3	92.6	92.7	92.7	92.7	92.8	92.8	93.1	93.1
GE 600	90.3	90.6	91.4	92.3	93.3	93.3	93.6	93.6	93.8	94.0	94.0	94.0	94.2	94.2	94.6	94.6
GE 500	90.3	90.6	91.6	92.4	93.7	93.7	93.9	93.9	94.3	94.9	95.0	95.0	95.2	95.2	95.6	95.6
GE 400	90.8	91.0	92.1	93.1	94.4	94.4	94.7	94.8	95.6	96.4	96.6	96.6	96.8	96.8	97.1	97.1
GE 300	90.9	91.1	92.2	93.2	94.6	94.6	94.9	95.0	95.9	97.0	97.2	97.4	97.9	97.9	98.2	98.2
GE 200	90.9	91.1	92.2	93.2	94.6	94.6	94.9	95.2	96.1	97.3	97.7	97.9	98.8	99.0	99.3	99.3
GE 100	91.0	91.2	92.3	93.3	94.7	94.7	95.0	95.3	96.2	97.4	97.8	98.1	99.0	99.3	99.7	99.9
GE 000	91.0	91.2	92.3	93.3	94.7	94.7	95.0	95.3	96.2	97.4	97.8	98.1	99.0	99.3	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 900



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: APR HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
GE 20000	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.8
GE 18000	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.6
GE 16000	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.6
GE 14000	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.8
GE 12000	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.2
GE 10000	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.9
GE 9000	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.6
GE 8000	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.3
GE 7000	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.2
GE 6000	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.4
GE 5000	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.8
GE 4500	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.8
GE 4000	79.3	79.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.8
GE 3500	80.8	80.8	80.9	81.0	81.0	81.0	81.0	81.0	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.3
GE 3000	83.2	83.2	83.3	83.4	83.6	83.6	83.6	83.6	83.6	83.7	83.7	83.7	83.7	83.7	83.7	84.0
GE 2500	85.4	85.4	85.6	85.7	85.8	85.8	85.9	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.3
GE 2000	86.8	86.8	86.9	87.0	87.2	87.2	87.3	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.8
GE 1800	86.9	86.9	87.0	87.1	87.3	87.3	87.4	87.4	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.9
GE 1500	88.6	88.6	88.7	88.9	89.1	89.1	89.2	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.7
GE 1200	89.4	89.4	89.7	89.9	90.2	90.2	90.3	90.3	90.3	90.6	90.6	90.6	90.6	90.6	90.6	90.9
GE 1000	90.1	90.1	90.6	90.9	91.3	91.3	91.4	91.4	91.4	91.7	91.7	91.7	91.7	91.7	91.7	92.0
GE 900	90.3	90.3	90.8	91.1	91.7	91.7	91.8	91.8	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.3
GE 800	90.9	90.9	91.4	91.8	92.3	92.3	92.6	92.6	92.6	93.0	93.0	93.1	93.1	93.1	93.1	93.4
GE 700	90.9	90.9	91.4	91.8	92.3	92.3	92.6	92.6	92.6	93.2	93.2	93.3	93.3	93.3	93.3	93.7
GE 600	91.0	91.0	91.7	92.1	93.1	93.1	93.3	93.4	93.4	94.4	94.4	94.6	94.6	94.6	94.6	94.9
GE 500	91.0	91.1	92.1	92.7	93.9	93.9	94.1	94.4	94.4	95.6	95.6	95.7	95.7	95.7	95.7	96.0
GE 400	91.0	91.1	92.1	92.7	94.3	94.3	94.8	95.1	95.3	96.7	96.7	96.8	97.3	97.3	97.3	97.7
GE 300	91.0	91.1	92.1	92.7	94.3	94.3	94.9	95.2	95.4	96.8	96.8	96.9	98.0	98.2	98.2	98.6
GE 200	91.3	91.4	92.4	93.0	94.7	94.7	95.2	95.6	95.8	97.2	97.2	97.6	99.2	99.6	99.6	99.9
GE 100	91.3	91.4	92.4	93.0	94.7	94.7	95.2	95.6	95.8	97.2	97.2	97.6	99.2	99.6	99.6	100.0
GE 000	91.3	91.4	92.4	93.0	94.7	94.7	95.2	95.6	95.8	97.2	97.2	97.6	99.2	99.6	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: APR HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
GE 20000	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
GE 18000	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
GE 16000	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
GE 14000	58.1	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
GE 12000	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
GE 10000	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
GE 9000	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
GE 8000	68.8	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
GE 7000	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
GE 6000	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
GE 5000	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
GE 4500	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
GE 4000	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
GE 3500	82.8	82.9	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
GE 3000	85.2	85.3	85.4	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.7	85.7	85.7	86.0
GE 2500	86.7	86.8	86.9	87.0	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.2	87.2	87.2	87.6
GE 2000	87.6	87.7	87.8	87.9	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.2	88.3	88.3	88.3	88.7
GE 1800	87.6	87.7	87.8	88.0	88.3	88.3	88.4	88.4	88.4	88.4	88.4	88.6	88.7	88.7	88.7	89.0
GE 1500	88.4	88.6	88.8	89.1	89.4	89.4	89.7	89.8	89.8	89.8	89.8	89.9	90.0	90.0	90.0	90.3
GE 1200	89.9	90.1	90.6	91.0	91.3	91.3	91.6	91.9	91.9	91.9	91.9	92.0	92.1	92.1	92.1	92.4
GE 1000	90.4	90.7	91.1	91.6	92.0	92.0	92.2	92.6	92.6	92.7	92.8	92.9	93.0	93.0	93.0	93.3
GE 900	90.4	90.7	91.1	91.6	92.0	92.0	92.2	92.6	92.6	92.7	92.8	92.9	93.0	93.0	93.0	93.3
GE 800	90.8	91.0	91.6	92.0	92.4	92.4	92.7	93.0	93.0	93.2	93.6	93.7	93.9	93.9	93.9	94.2
GE 700	91.0	91.2	91.8	92.2	92.7	92.7	92.9	93.2	93.2	93.4	93.8	93.9	94.2	94.2	94.2	94.6
GE 600	91.0	91.2	91.8	92.3	92.8	92.8	93.0	93.3	93.3	93.8	94.1	94.2	94.6	94.6	94.6	94.9
GE 500	91.0	91.6	92.3	92.9	93.4	93.4	93.9	94.3	94.3	94.9	95.3	95.6	96.0	96.0	96.0	96.3
GE 400	91.1	91.7	92.4	93.0	93.8	93.8	94.3	94.8	94.9	96.1	96.6	96.8	97.6	97.7	97.9	98.2
GE 300	91.2	91.8	92.6	93.1	93.9	93.9	94.4	94.9	95.0	96.4	97.0	97.3	98.1	98.2	98.4	98.8
GE 200	91.2	91.8	92.8	93.3	94.2	94.2	94.8	95.2	95.3	96.8	97.3	97.9	98.8	99.0	99.2	99.6
GE 100	91.2	91.8	92.8	93.3	94.2	94.2	94.8	95.2	95.3	96.8	97.3	97.9	98.9	99.1	99.4	100.0
GE 000	91.2	91.8	92.8	93.3	94.2	94.2	94.8	95.2	95.3	96.8	97.3	97.9	98.9	99.1	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: APR HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 20000	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.1	62.1	62.1	62.1	62.1	62.2	62.2	62.2
GE 18000	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.1	62.1	62.1	62.1	62.1	62.2	62.2	62.2
GE 16000	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.2	62.2	62.2	62.2	62.2	62.3	62.3	62.3
GE 14000	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.1	64.1	64.1
GE 12000	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.7	65.7	65.7	65.7	65.7	65.8	65.8	65.8
GE 10000	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.4	70.4	70.4	70.4	70.4	70.6	70.6	70.6
GE 9000	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.9	70.9	70.9	70.9	70.9	71.0	71.0	71.0
GE 8000	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.1	75.1	75.1	75.1	75.1	75.2	75.2	75.2
GE 7000	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.4	76.4	76.4	76.4	76.4	76.6	76.6	76.6
GE 6000	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.3	77.3	77.3	77.3	77.3	77.4	77.4	77.4
GE 5000	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.4	79.4	79.4	79.4	79.4	79.6	79.6	79.6
GE 4500	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.9	79.9	79.9
GE 4000	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.7	81.7	81.7	81.7	81.7	81.8	81.8	81.8
GE 3500	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	83.0	83.0	83.0	83.0	83.0	83.1	83.1	83.1
GE 3000	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.6	85.6	85.6	85.6	85.6	85.7	85.8	85.8
GE 2500	86.8	86.8	86.8	86.8	86.9	86.9	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.1	87.2	87.2
GE 2000	87.9	87.9	87.9	87.9	88.0	88.0	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.2	88.3	88.3
GE 1800	88.0	88.0	88.0	88.0	88.1	88.1	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.3	88.4	88.4
GE 1500	89.1	89.1	89.3	89.4	89.7	89.7	89.7	89.8	89.9	89.9	90.0	90.0	90.0	90.1	90.2	90.2
GE 1200	89.6	89.6	89.8	90.0	90.3	90.3	90.3	90.6	90.7	90.7	90.8	90.8	91.1	91.2	91.3	91.3
GE 1000	90.0	90.0	90.3	90.6	91.0	91.0	91.0	91.2	91.3	91.3	91.4	91.4	91.8	91.9	92.0	92.0
GE 900	90.1	90.1	90.4	90.7	91.1	91.1	91.1	91.3	91.4	91.4	91.6	91.6	91.9	92.0	92.1	92.1
GE 800	90.7	90.7	91.1	91.3	91.8	91.8	91.8	92.0	92.1	92.2	92.4	92.4	92.8	92.9	93.0	93.0
GE 700	90.7	90.7	91.1	91.3	91.8	91.8	91.8	92.0	92.1	92.2	92.4	92.4	92.8	92.9	93.0	93.0
GE 600	90.8	90.8	91.6	92.0	92.4	92.4	92.6	92.8	93.0	93.2	93.7	93.8	94.1	94.2	94.4	94.4
GE 500	90.8	90.8	92.0	92.6	93.0	93.0	93.4	93.7	93.9	94.3	94.8	94.9	95.4	95.6	95.8	95.8
GE 400	91.2	91.2	92.4	93.1	93.6	93.6	94.6	94.8	95.0	95.6	96.0	96.1	96.8	96.9	97.2	97.2
GE 300	91.7	91.7	92.9	93.7	94.1	94.1	95.3	95.6	96.0	96.8	97.2	97.3	98.1	98.3	98.8	98.8
GE 200	91.7	91.8	93.0	93.8	94.3	94.3	95.6	95.8	96.2	97.0	97.4	97.7	98.9	99.1	99.8	99.8
GE 100	91.7	91.8	93.0	93.8	94.3	94.3	95.6	95.8	96.2	97.2	97.7	97.9	99.1	99.3	100.0	100.0
GE 000	91.7	91.8	93.0	93.8	94.3	94.3	95.6	95.8	96.2	97.2	97.7	97.9	99.1	99.3	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: APR HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
GE 20000	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 18000	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 16000	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 14000	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
GE 12000	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
GE 10000	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
GE 9000	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
GE 8000	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
GE 7000	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
GE 6000	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
GE 5000	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
GE 4500	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
GE 4000	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
GE 3500	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
GE 3000	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 2500	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
GE 2000	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
GE 1800	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
GE 1500	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 1200	89.7	90.1	90.2	90.2	90.3	90.3	90.3	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
GE 1000	89.8	90.3	90.4	90.4	90.6	90.6	90.6	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 900	90.1	90.7	90.8	91.0	91.1	91.1	91.1	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE 800	90.2	90.8	91.1	91.3	91.4	91.4	91.4	91.9	91.9	91.9	91.9	91.9	92.0	92.0	92.0	92.0
GE 700	90.7	91.2	91.6	91.8	91.9	91.9	92.0	92.4	92.8	92.8	92.8	92.8	92.9	92.9	92.9	92.9
GE 600	90.9	91.6	92.0	92.3	92.4	92.4	92.6	93.0	93.3	93.3	93.3	93.3	93.4	93.4	93.4	93.4
GE 500	91.9	92.6	93.2	93.8	94.0	94.0	94.1	94.6	94.9	95.2	95.2	95.2	95.4	95.4	95.4	95.4
GE 400	92.4	93.1	93.8	94.3	94.7	94.7	94.8	95.2	95.8	96.1	96.1	96.1	96.3	96.3	96.3	96.3
GE 300	92.8	93.4	94.1	94.8	95.3	95.3	95.4	95.9	96.4	97.0	97.3	97.3	97.8	97.8	97.8	97.8
GE 200	92.9	93.6	94.2	94.9	95.4	95.4	95.8	96.2	96.9	97.6	97.9	98.0	99.1	99.2	99.3	99.7
GE 100	92.9	93.6	94.2	94.9	95.4	95.4	95.8	96.2	96.9	97.7	98.0	98.3	99.4	99.6	99.7	100.0
GE 000	92.9	93.6	94.2	94.9	95.4	95.4	95.8	96.2	96.9	97.7	98.0	98.3	99.4	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: APR HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	54.1	54.1	54.2	54.2	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
GE 20000	62.4	62.4	62.4	62.5	62.5	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.7	62.7
GE 18000	62.6	62.6	62.7	62.8	62.8	62.8	62.8	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
GE 16000	62.7	62.7	62.8	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	63.0	63.0	63.0
GE 14000	64.0	64.0	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.3	64.3	64.3
GE 12000	65.3	65.4	65.4	65.5	65.5	65.5	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.7
GE 10000	69.0	69.0	69.0	69.1	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.3	69.3
GE 9000	69.7	69.7	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	70.0	70.0	70.0
GE 8000	73.4	73.5	73.5	73.6	73.6	73.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.8	73.8
GE 7000	74.1	74.2	74.3	74.3	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.5	74.5
GE 6000	75.0	75.1	75.2	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.4	75.4
GE 5000	77.7	77.8	77.9	77.9	78.0	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.2	78.2
GE 4500	78.4	78.4	78.5	78.6	78.7	78.7	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.9
GE 4000	81.0	81.0	81.2	81.2	81.3	81.3	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.5	81.6
GE 3500	82.1	82.2	82.3	82.4	82.5	82.5	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.7	82.7
GE 3000	84.0	84.1	84.3	84.4	84.5	84.5	84.5	84.6	84.6	84.6	84.6	84.6	84.7	84.7	84.8	84.8
GE 2500	85.1	85.2	85.4	85.5	85.6	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.9	86.0
GE 2000	86.3	86.3	86.5	86.7	86.9	86.9	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.2	87.3
GE 1800	86.3	86.4	86.6	86.8	87.0	87.0	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.3	87.4
GE 1500	87.4	87.5	87.8	88.0	88.2	88.2	88.3	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.6	88.7
GE 1200	88.4	88.5	88.8	89.2	89.5	89.5	89.6	89.7	89.8	89.8	89.8	89.8	89.9	89.9	90.0	90.1
GE 1000	89.1	89.3	89.7	90.1	90.4	90.5	90.6	90.8	90.8	90.9	90.9	90.9	91.0	91.0	91.1	91.2
GE 900	89.3	89.5	89.9	90.3	90.7	90.7	90.8	91.0	91.0	91.1	91.1	91.1	91.2	91.2	91.3	91.4
GE 800	89.8	89.9	90.4	90.8	91.2	91.2	91.4	91.6	91.6	91.8	91.8	91.8	91.9	92.0	92.1	92.1
GE 700	90.1	90.3	90.8	91.2	91.6	91.7	91.8	92.0	92.1	92.3	92.4	92.5	92.6	92.6	92.7	92.8
GE 600	90.3	90.5	91.1	91.6	92.2	92.3	92.5	92.7	92.8	93.1	93.3	93.3	93.4	93.5	93.6	93.7
GE 500	90.6	90.9	91.7	92.3	93.1	93.1	93.4	93.7	93.8	94.3	94.4	94.5	94.7	94.7	94.9	94.9
GE 400	91.2	91.6	92.4	93.1	94.0	94.1	94.5	94.8	95.0	95.8	96.0	96.1	96.4	96.4	96.7	96.8
GE 300	91.5	91.9	92.7	93.4	94.4	94.4	94.9	95.2	95.6	96.6	96.9	97.1	97.6	97.7	97.9	98.0
GE 200	91.6	92.1	93.0	93.7	94.8	94.8	95.3	95.7	96.1	97.2	97.6	98.0	98.9	99.1	99.5	99.7
GE 100	91.7	92.1	93.0	93.8	94.8	94.8	95.3	95.7	96.1	97.3	97.7	98.1	99.0	99.2	99.6	100.0
GE 000	91.7	92.1	93.0	93.8	94.8	94.8	95.3	95.7	96.1	97.3	97.7	98.1	99.0	99.2	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 7200

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAY HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	59.8	59.8	59.8	59.8	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
GE 20000	65.3	65.3	65.3	65.3	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
GE 18000	65.4	65.4	65.4	65.4	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
GE 16000	65.4	65.4	65.4	65.4	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
GE 14000	65.4	65.4	65.4	65.4	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
GE 12000	67.4	67.4	67.4	67.4	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
GE 10000	72.0	72.0	72.0	72.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
GE 9000	72.0	72.0	72.0	72.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
GE 8000	75.3	75.3	75.3	75.3	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
GE 7000	75.8	75.8	75.8	75.8	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
GE 6000	77.1	77.1	77.1	77.1	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
GE 5000	80.6	80.6	80.6	80.6	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
GE 4500	81.5	81.5	81.5	81.5	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
GE 4000	84.2	84.2	84.2	84.2	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
GE 3500	84.9	84.9	84.9	84.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
GE 3000	87.0	87.0	87.0	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GE 2500	88.2	88.2	88.2	88.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
GE 2000	90.1	90.1	90.1	90.1	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
GE 1800	90.1	90.1	90.1	90.1	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
GE 1500	91.7	91.7	91.7	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 1200	92.4	92.4	92.4	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE 1000	93.1	93.1	93.1	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
GE 900	93.3	93.3	93.3	93.3	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
GE 800	93.3	93.3	93.3	93.3	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
GE 700	93.4	93.4	93.4	93.4	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
GE 600	93.5	93.5	93.5	93.5	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
GE 500	95.1	95.2	95.5	95.6	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.1	96.1
GE 400	95.7	96.2	96.7	96.8	97.1	97.1	97.5	97.6	97.6	97.8	97.8	97.8	97.8	97.8	98.0	98.0
GE 300	96.1	96.9	97.4	97.5	97.8	97.8	98.3	98.4	98.4	98.7	98.7	98.7	98.7	98.7	98.8	98.8
GE 200	96.1	96.9	97.4	97.6	98.0	98.0	98.4	98.5	98.5	98.8	98.8	98.8	99.0	99.1	99.4	99.4
GE 100	96.2	97.0	97.5	97.7	98.1	98.1	98.5	98.6	98.6	98.9	99.0	99.2	99.5	99.6	99.9	100.0
GE 000	96.2	97.0	97.5	97.7	98.1	98.1	98.5	98.6	98.6	98.9	99.0	99.2	99.5	99.6	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: MAY HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.5	55.5	55.6	55.6	55.6	55.6	55.6	55.7	55.8
GE 20000	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.6	62.6	62.7	62.7	62.7	62.7	62.7	62.8	62.9
GE 18000	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.6	62.6	62.7	62.7	62.7	62.7	62.7	62.8	62.9
GE 16000	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.6	62.6	62.7	62.7	62.7	62.7	62.7	62.8	62.9
GE 14000	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.8	62.8	62.9	62.9	62.9	62.9	62.9	63.0	63.1
GE 12000	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.7	64.7	64.8	64.8	64.8	64.8	64.8	64.9	65.1
GE 10000	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.5	69.5	69.6	69.6	69.6	69.6	69.6	69.7	69.8
GE 9000	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.1	70.2
GE 8000	73.4	73.4	73.5	73.5	73.5	73.5	73.5	73.7	73.7	73.8	73.8	73.8	73.8	73.8	73.9	74.0
GE 7000	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.2	-	74.3	74.3	74.3	74.3	74.3	74.4	74.5
GE 6000	75.7	75.7	75.8	75.8	75.8	75.8	75.8	75.9	75.9	76.0	76.0	76.0	76.0	76.0	76.1	76.2
GE 5000	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.1	79.1	79.2	79.2	79.2	79.2	79.2	79.4	79.5
GE 4500	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.4	80.4	80.5	80.5	80.5	80.5	80.5	80.6	80.8
GE 4000	82.2	82.3	82.4	82.4	82.4	82.4	82.4	82.5	82.5	82.6	82.6	82.6	82.6	82.6	82.7	82.8
GE 3500	82.5	82.6	82.7	82.7	82.7	82.7	82.7	82.8	82.8	82.9	82.9	82.9	82.9	82.9	83.0	83.1
GE 3000	84.7	84.9	85.2	85.2	85.2	85.2	85.2	85.3	85.3	85.4	85.4	85.4	85.4	85.4	85.5	85.6
GE 2500	86.2	86.5	86.7	86.8	86.8	86.8	86.8	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.1	87.2
GE 2000	87.4	87.6	87.8	88.0	88.0	88.0	88.0	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.3	88.4
GE 1800	88.1	88.3	88.5	88.6	88.6	88.6	88.6	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.9	89.0
GE 1500	89.0	89.2	89.5	89.7	89.8	89.8	89.8	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.1	90.2
GE 1200	89.5	89.8	90.0	90.2	90.3	90.3	90.3	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.6	90.8
GE 1000	89.9	90.2	90.4	90.6	90.8	90.8	90.8	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.1	91.2
GE 900	90.2	90.5	90.8	91.1	91.2	91.2	91.2	91.3	91.3	91.4	91.4	91.4	91.4	91.4	91.5	91.6
GE 800	90.8	91.1	91.3	91.7	91.8	91.8	91.8	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.2	92.3
GE 700	91.1	91.4	91.6	92.2	92.4	92.4	92.4	92.5	92.5	92.6	92.6	92.6	92.6	92.6	92.7	92.8
GE 600	91.3	91.6	91.8	92.4	92.7	92.7	92.7	92.8	92.8	92.9	92.9	92.9	92.9	92.9	93.0	93.1
GE 500	92.2	92.7	93.1	93.8	94.2	94.2	94.3	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.6	94.7
GE 400	93.0	93.5	94.1	94.8	95.4	95.4	95.9	96.3	96.3	96.5	96.5	96.5	96.5	96.5	96.6	96.7
GE 300	93.3	93.9	94.6	95.5	96.2	96.2	96.8	97.3	97.4	97.5	97.6	97.6	97.7	97.7	97.8	98.0
GE 200	93.4	94.0	94.7	95.6	96.3	96.3	97.3	98.1	98.2	98.3	98.4	98.5	98.9	99.0	99.1	99.2
GE 100	93.4	94.0	94.7	95.6	96.3	96.3	97.3	98.1	98.2	98.3	98.4	98.5	99.0	99.1	99.4	99.6
GE 000	93.4	94.0	94.7	95.6	96.3	96.3	97.3	98.1	98.2	98.3	98.4	98.5	99.0	99.1	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625      STATION NAME: ELLSWORTH AFB/RAPID CITY SD      PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7      MONTH: MAY      HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 5	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CELL	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
GE 20000	61.1	61.1	61.1	61.1	61.1	61.1	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.4
GE 18000	61.1	61.1	61.1	61.1	61.1	61.1	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.4
GE 16000	61.1	61.1	61.1	61.1	61.1	61.1	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.4
GE 14000	62.0	62.0	62.0	62.0	62.0	62.0	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.4
GE 12000	64.0	64.0	64.0	64.0	64.0	64.0	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.3
GE 10000	67.1	67.1	67.1	67.1	67.1	67.1	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.4
GE 9000	68.0	68.0	68.0	68.0	68.0	68.0	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.3
GE 8000	73.3	73.3	73.3	73.3	73.3	73.3	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.7
GE 7000	74.1	74.1	74.1	74.1	74.1	74.1	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.4
GE 6000	76.2	76.2	76.2	76.2	76.2	76.2	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.6
GE 5000	79.6	79.6	79.6	79.6	79.6	79.6	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.9
GE 4500	80.1	80.1	80.2	80.2	80.2	80.2	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.5
GE 4000	82.2	82.2	82.3	82.3	82.3	82.3	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.6
GE 3500	82.8	82.8	82.9	82.9	82.9	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.2
GE 3000	83.9	83.9	84.0	84.0	84.0	84.0	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.3
GE 2500	84.7	84.7	84.9	84.9	84.9	84.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.3
GE 2000	85.9	85.9	86.1	86.1	86.1	86.1	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.5
GE 1800	86.3	86.3	86.6	86.6	86.6	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.9
GE 1500	87.1	87.1	87.5	87.5	87.5	87.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.8
GE 1200	87.6	87.6	88.1	88.1	88.1	88.1	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.4
GE 1000	88.5	88.8	89.2	89.4	89.4	89.5	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.9
GE 900	88.9	89.2	89.7	90.1	90.1	90.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.6
GE 800	89.5	89.9	90.3	90.8	90.9	91.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.4
GE 700	89.9	90.4	90.9	91.4	91.5	91.6	92.0	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.4
GE 600	90.3	90.9	91.4	91.9	92.2	92.3	92.7	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9	93.0
GE 500	91.0	91.7	92.4	93.3	94.1	94.3	95.1	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.4
GE 400	91.4	92.3	92.9	94.3	95.1	95.4	96.3	96.7	96.7	97.1	97.1	97.1	97.1	97.1	97.2	97.3
GE 300	91.5	92.5	93.2	94.7	95.6	95.9	97.2	97.6	97.6	98.2	98.2	98.2	98.3	98.3	98.4	98.5
GE 200	91.5	92.5	93.2	95.1	96.0	96.3	98.0	98.4	98.4	99.0	99.1	99.1	99.6	99.6	99.9	100.0
GE 100	91.5	92.5	93.2	95.1	96.0	96.3	98.0	98.4	98.4	99.0	99.1	99.1	99.6	99.6	99.9	100.0
GE 000	91.5	92.5	93.2	95.1	96.0	96.3	98.0	98.4	98.4	99.0	99.1	99.1	99.6	99.6	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS      930



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAY HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
GE 20000	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
GE 18000	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 16000	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 14000	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE 12000	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
GE 10000	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
GE 9000	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
GE 8000	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
GE 7000	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
GE 6000	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
GE 5000	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
GE 4500	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
GE 4000	80.9	80.9	80.9	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
GE 3500	82.3	82.3	82.4	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
GE 3000	84.3	84.3	84.4	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
GE 2500	85.3	85.3	85.4	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 2000	86.6	86.6	86.7	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
GE 1800	87.0	87.0	87.1	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
GE 1500	87.7	87.8	88.0	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
GE 1200	89.5	89.7	89.8	90.3	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
GE 1000	90.9	91.1	91.2	91.7	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.2	92.2	92.2	92.2
GE 900	91.8	92.2	92.3	92.8	92.9	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.2	93.2	93.2	93.2
GE 800	92.8	93.1	93.2	93.8	93.9	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.2	94.2	94.2	94.2
GE 700	93.2	93.5	93.7	94.2	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.6	94.6	94.6	94.6
GE 600	93.8	94.1	94.2	94.7	94.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.3	95.3	95.3	95.3
GE 500	94.1	94.7	94.9	95.7	96.2	96.5	96.6	96.6	96.6	96.8	96.8	96.8	97.0	97.0	97.0	97.0
GE 400	94.3	94.9	95.2	96.1	96.9	97.1	97.4	97.5	97.5	98.2	98.2	98.2	98.4	98.4	98.5	98.7
GE 300	94.4	95.1	95.3	96.2	97.0	97.5	98.2	98.4	98.4	99.0	99.0	99.0	99.2	99.2	99.4	99.6
GE 200	94.4	95.1	95.3	96.2	97.0	97.5	98.2	98.4	98.4	99.2	99.2	99.2	99.7	99.7	99.8	100.0
GE 100	94.4	95.1	95.3	96.2	97.0	97.5	98.2	98.4	98.4	99.2	99.2	99.2	99.7	99.7	99.8	100.0
GE 000	94.4	95.1	95.3	96.2	97.0	97.5	98.2	98.4	98.4	99.2	99.2	99.2	99.7	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: MAY HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
GE 20000	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
GE 18000	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
GE 16000	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
GE 14000	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
GE 12000	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
GE 10000	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
GE 9000	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
GE 8000	63.5	63.5	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
GE 7000	64.2	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
GE 6000	65.8	65.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
GE 5000	71.5	71.5	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
GE 4500	72.4	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
GE 4000	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
GE 3500	81.1	81.1	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
GE 3000	85.8	85.8	86.0	86.1	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 2500	86.2	86.3	86.6	86.7	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
GE 2000	87.4	87.5	87.8	88.0	88.2	88.2	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
GE 1800	87.8	88.0	88.3	88.4	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
GE 1500	89.6	89.7	90.0	90.1	90.3	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 1200	90.8	91.0	91.3	91.4	91.6	91.6	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
GE 1000	91.7	92.2	92.5	92.6	93.2	93.2	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
GE 900	92.6	93.0	93.3	93.4	94.1	94.1	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
GE 800	93.1	93.7	94.1	94.2	94.8	94.8	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 700	93.4	94.0	94.4	94.8	95.5	95.5	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 600	93.5	94.1	94.5	94.9	95.6	95.8	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 500	93.9	94.5	95.3	95.9	96.7	97.2	97.7	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 400	94.1	94.7	95.6	96.3	97.2	97.7	98.5	98.6	98.6	98.8	98.9	98.9	98.9	98.9	98.9	99.0
GE 300	94.2	94.8	95.7	96.6	97.5	98.1	99.0	99.2	99.2	99.8	99.9	99.9	99.9	99.9	99.9	100.0
GE 200	94.2	94.8	95.7	96.6	97.5	98.1	99.0	99.2	99.2	99.8	99.9	99.9	99.9	99.9	99.9	100.0
GE 100	94.2	94.8	95.7	96.6	97.5	98.1	99.0	99.2	99.2	99.8	99.9	99.9	99.9	99.9	99.9	100.0
GE 000	94.2	94.8	95.7	96.6	97.5	98.1	99.0	99.2	99.2	99.8	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAY HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
GE 20000	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
GE 18000	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
GE 16000	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
GE 14000	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
GE 12000	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
GE 10000	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
GE 9000	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
GE 8000	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
GE 7000	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
GE 6000	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 5000	73.7	73.7	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
GE 4500	74.4	74.4	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
GE 4000	81.0	81.0	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
GE 3500	82.6	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
GE 3000	86.9	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
GE 2500	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
GE 2000	90.0	90.0	90.0	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
GE 1800	90.3	90.3	90.3	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
GE 1500	91.7	91.7	91.7	92.0	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
GE 1200	93.3	93.3	93.3	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 1000	94.4	94.4	94.4	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
GE 900	94.5	94.5	94.5	95.1	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 800	94.7	94.8	94.8	95.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 700	94.8	94.9	94.9	95.5	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 600	94.9	95.2	95.3	95.9	96.3	96.3	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 500	96.0	96.2	96.3	97.1	97.6	97.8	97.8	98.0	98.2	98.2	98.5	98.5	98.5	98.5	98.5	98.5
GE 400	96.0	96.2	96.3	97.1	97.7	98.0	98.2	98.3	98.5	98.5	99.0	99.0	99.0	99.0	99.0	99.0
GE 300	96.2	96.5	96.7	97.6	98.3	98.5	98.8	99.2	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	96.2	96.5	96.7	97.6	98.3	98.5	98.8	99.2	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	96.2	96.5	96.7	97.6	98.3	98.5	98.8	99.2	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	96.2	96.5	96.7	97.6	98.3	98.5	98.8	99.2	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: MAY HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
GE 20000	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
GE 18000	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
GE 16000	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
GE 14000	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
GE 12000	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
GE 10000	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
GE 9000	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 8000	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
GE 7000	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
GE 6000	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
GE 5000	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
GE 4500	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
GE 4000	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
GE 3500	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
GE 3000	88.1	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
GE 2500	89.2	89.2	89.4	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 2000	91.1	91.1	91.2	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE 1800	91.2	91.2	91.3	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
GE 1500	91.6	91.6	91.8	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
GE 1200	92.8	92.8	93.0	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
GE 1000	93.5	93.7	93.9	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
GE 900	93.7	94.0	94.2	94.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
GE 800	94.0	94.4	94.6	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 700	94.0	94.4	94.7	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 600	94.1	94.5	94.9	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 500	94.3	94.7	95.2	96.2	96.6	96.6	96.7	97.1	97.4	97.4	97.5	97.5	97.6	97.6	97.6	97.6
GE 400	94.7	95.2	95.6	96.9	97.2	97.2	97.4	97.8	98.2	98.4	98.5	98.5	98.7	98.7	98.7	98.7
GE 300	95.1	95.5	95.9	97.4	97.7	97.7	98.1	98.9	99.2	99.5	99.6	99.6	99.8	99.8	99.8	99.8
GE 200	95.2	95.7	96.1	97.6	98.0	98.0	98.3	99.1	99.5	99.7	99.8	99.8	100.0	100.0	100.0	100.0
GE 100	95.2	95.7	96.1	97.6	98.0	98.0	98.3	99.1	99.5	99.7	99.8	99.8	100.0	100.0	100.0	100.0
GE 000	95.2	95.7	96.1	97.6	98.0	98.0	98.3	99.1	99.5	99.7	99.8	99.8	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: MAY HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
GE 20000	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
GE 18000	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
GE 16000	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
GE 14000	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
GE 12000	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
GE 10000	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
GE 9000	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
GE 8000	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
GE 7000	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
GE 6000	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
GE 5000	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
GE 4500	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
GE 4000	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
GE 3500	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 3000	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE 2500	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 2000	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
GE 1800	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 1500	92.0	92.0	92.3	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
GE 1200	92.9	92.9	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
GE 1000	93.7	93.7	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
GE 900	94.1	94.1	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
GE 800	94.7	94.7	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 700	94.8	94.8	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 600	94.9	94.9	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 500	95.9	96.0	96.3	96.3	96.5	96.5	96.6	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 400	96.3	96.6	97.0	97.2	97.4	97.4	97.5	97.8	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 300	96.6	96.8	97.5	97.7	98.0	98.0	98.1	98.6	98.7	99.1	99.1	99.1	99.2	99.2	99.2	99.2
GE 200	96.9	97.1	97.8	98.2	98.4	98.4	98.5	99.0	99.1	99.6	99.6	99.6	99.7	99.7	99.9	99.9
GE 100	96.9	97.1	97.8	98.2	98.4	98.4	98.5	99.0	99.1	99.6	99.6	99.6	99.8	99.8	100.0	100.0
GE 000	96.9	97.1	97.8	98.2	98.4	98.4	98.5	99.0	99.1	99.6	99.6	99.6	99.8	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: MAY HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	50.7	50.7	50.7	50.7	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
GE 20000	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.4	60.4
GE 18000	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.6	60.6	60.6	60.6	60.6	60.6	60.6
GE 16000	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.6	60.6	60.6	60.6	60.6	60.6	60.6
GE 14000	61.1	61.1	61.1	61.1	61.1	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
GE 12000	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.1	63.1
GE 10000	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 9000	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.7
GE 8000	71.8	71.8	71.8	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	72.0
GE 7000	72.4	72.4	72.4	72.4	72.4	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
GE 6000	74.0	74.0	74.0	74.0	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
GE 5000	77.9	77.9	77.9	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.1
GE 4500	78.5	78.5	78.6	78.6	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
GE 4000	82.3	82.3	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5
GE 3500	83.5	83.5	83.5	83.6	83.6	83.6	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
GE 3000	86.0	86.0	86.1	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.4	86.4
GE 2500	87.2	87.2	87.3	87.5	87.5	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 2000	88.7	88.7	88.8	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.2	89.2
GE 1800	89.0	89.0	89.1	89.3	89.4	89.4	89.4	89.4	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5
GE 1500	90.1	90.1	90.3	90.5	90.6	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
GE 1200	91.1	91.2	91.4	91.6	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 1000	92.0	92.1	92.3	92.6	92.7	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
GE 900	92.4	92.6	92.8	93.1	93.3	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
GE 800	92.9	93.1	93.3	93.7	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.1	94.1	94.1	94.1
GE 700	93.1	93.4	93.6	94.0	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.5	94.5	94.5	94.5
GE 600	93.3	93.6	93.9	94.3	94.6	94.7	94.8	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9
GE 500	94.0	94.5	94.9	95.5	96.0	96.1	96.3	96.5	96.6	96.6	96.7	96.7	96.7	96.7	96.8	96.8
GE 400	94.4	95.0	95.4	96.2	96.7	96.9	97.4	97.6	97.7	98.0	98.1	98.1	98.1	98.1	98.2	98.2
GE 300	94.7	95.2	95.8	96.7	97.3	97.5	98.1	98.5	98.6	98.9	99.0	99.0	99.1	99.1	99.2	99.2
GE 200	94.7	95.3	95.9	96.8	97.4	97.6	98.3	98.8	98.8	99.2	99.4	99.4	99.6	99.6	99.7	99.8
GE 100	94.8	95.3	95.9	96.8	97.4	97.6	98.3	98.8	98.9	99.2	99.4	99.4	99.7	99.7	99.9	99.9
GE 000	94.8	95.3	95.9	96.8	97.4	97.6	98.3	98.8	98.9	99.2	99.4	99.4	99.7	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUN HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
GE 20000	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
GE 18000	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
GE 16000	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
GE 14000	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
GE 12000	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
GE 10000	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
GE 9000	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 8000	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
GE 7000	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
GE 6000	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
GE 5000	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
GE 4500	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
GE 4000	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
GE 3500	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 3000	94.9	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
GE 2500	95.0	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE 2000	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 1800	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 1500	95.9	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 1200	96.2	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 1000	96.7	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 900	96.8	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 800	96.8	96.8	96.8	96.9	97.0	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 700	96.8	96.8	96.9	97.0	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 600	96.8	96.8	96.9	97.0	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 500	97.0	97.0	97.1	97.2	97.4	97.4	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 400	97.6	97.6	97.7	98.1	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 300	97.6	97.6	97.9	98.3	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 200	97.8	97.8	98.1	98.7	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1
GE 100	98.0	98.0	98.3	98.9	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.6
GE 000	98.0	98.0	98.3	98.9	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JUN HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
GE 20000	68.3	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
GE 18000	68.4	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
GE 16000	68.4	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
GE 14000	68.8	68.8	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
GE 12000	69.4	69.4	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
GE 10000	74.4	74.4	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
GE 9000	74.4	74.4	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
GE 8000	80.7	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
GE 7000	82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GE 6000	83.1	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
GE 5000	86.7	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
GE 4500	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE 4000	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
GE 3500	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 3000	92.4	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE 2500	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 2000	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 1800	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
GE 1500	94.4	94.4	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
GE 1200	94.6	94.6	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
GE 1000	94.7	94.7	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE 900	94.8	94.8	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 800	95.0	95.0	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 700	95.2	95.2	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 600	95.4	95.7	96.1	96.3	96.4	96.4	96.4	96.4	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 500	95.6	95.8	96.3	96.7	96.8	96.8	96.8	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 400	96.1	96.3	96.9	97.3	97.4	97.4	97.4	97.4	97.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GE 300	96.1	96.4	97.0	97.4	97.8	97.8	97.9	97.9	97.9	98.3	98.3	98.3	98.4	98.4	98.4	98.4
GE 200	96.9	97.2	97.9	98.3	98.9	98.9	99.0	99.0	99.0	99.4	99.4	99.4	99.7	99.7	99.7	99.9
GE 100	96.9	97.2	97.9	98.3	98.9	98.9	99.0	99.0	99.0	99.4	99.4	99.4	99.7	99.7	99.7	99.9
GE 000	96.9	97.2	97.9	98.3	98.9	98.9	99.0	99.0	99.0	99.4	99.4	99.4	99.7	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 900



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUN HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	62.4	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
GE 20000	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
GE 18000	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
GE 16000	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
GE 14000	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
GE 12000	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
GE 10000	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
GE 9000	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
GE 8000	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
GE 7000	82.1	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
GE 6000	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
GE 5000	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
GE 4500	87.4	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
GE 4000	89.3	89.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
GE 3500	90.8	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
GE 3000	92.1	92.2	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE 2500	92.7	92.8	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 2000	93.9	94.1	94.6	94.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
GE 1800	94.1	94.3	94.8	94.8	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
GE 1500	94.3	94.6	95.1	95.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 1200	94.8	95.0	95.6	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 1000	94.8	95.0	95.7	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 900	94.8	95.0	95.7	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 800	94.8	95.0	95.7	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 700	94.8	95.0	95.7	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 600	94.9	95.1	96.0	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE 500	95.0	95.4	96.4	96.9	97.6	97.6	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8
GE 400	95.3	95.8	96.8	97.2	98.0	98.0	98.1	98.1	98.1	98.1	98.3	98.4	98.4	98.4	98.4	98.6
GE 300	95.4	95.9	96.9	97.4	98.3	98.3	98.7	98.7	98.8	98.8	99.1	99.2	99.2	99.2	99.2	99.3
GE 200	95.4	95.9	96.9	97.4	98.7	98.7	99.0	99.0	99.1	99.6	99.7	99.7	99.7	99.7	99.9	99.9
GE 100	95.4	95.9	96.9	97.4	98.7	98.7	99.0	99.0	99.1	99.6	99.7	99.7	99.7	99.7	100.0	100.0
GE 000	95.4	95.9	96.9	97.4	98.7	98.7	99.0	99.0	99.1	99.6	99.7	99.7	99.7	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUN HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
GE 20000	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
GE 18000	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
GE 16000	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
GE 14000	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
GE 12000	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
GE 10000	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
GE 9000	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
GE 8000	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
GE 7000	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
GE 6000	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
GE 5000	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
GE 4500	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
GE 4000	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
GE 3500	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
GE 3000	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 2500	92.2	92.2	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE 2000	93.2	93.2	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
GE 1800	93.4	93.4	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
GE 1500	94.4	94.7	94.9	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE 1200	95.2	95.4	95.7	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 1000	96.0	96.2	96.4	96.7	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 900	96.2	96.4	96.7	96.9	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 800	96.3	96.7	96.9	97.1	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 700	96.6	96.9	97.1	97.3	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 600	96.6	96.9	97.3	97.6	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 500	97.0	97.3	97.8	98.0	98.2	98.3	98.3	98.4	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 400	97.2	97.6	98.0	98.2	98.4	98.6	98.6	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 300	97.4	97.8	98.3	98.7	99.1	99.2	99.2	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 200	97.4	97.8	98.3	98.7	99.2	99.3	99.3	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	97.4	97.8	98.3	98.7	99.2	99.3	99.3	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	97.4	97.8	98.3	98.7	99.2	99.3	99.3	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUN HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
GE 20000	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 18000	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 16000	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 14000	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
GE 12000	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
GE 10000	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
GE 9000	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
GE 8000	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
GE 7000	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
GE 6000	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
GE 5000	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
GE 4500	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
GE 4000	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
GE 3500	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
GE 3000	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
GE 2500	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 2000	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
GE 1800	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 1500	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 1200	96.6	96.6	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 1000	97.4	97.4	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 900	97.4	97.4	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 800	97.6	97.6	97.7	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 700	98.2	98.2	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 600	98.3	98.3	98.6	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 500	98.8	99.0	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 400	98.9	99.1	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	98.9	99.1	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	98.9	99.1	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	98.9	99.1	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	98.9	99.1	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUN HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
GE 20000	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 18000	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
GE 16000	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
GE 14000	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
GE 12000	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
GE 10000	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
GE 9000	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
GE 8000	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
GE 7000	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
GE 6000	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
GE 5000	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
GE 4500	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
GE 4000	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 3500	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
GE 3000	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 2500	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 2000	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 1800	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 1500	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 1200	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 1000	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 900	98.2	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 800	98.2	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 700	98.6	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 600	98.6	98.6	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 500	99.0	99.0	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 400	99.0	99.0	99.2	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 300	99.1	99.1	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	99.1	99.1	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	99.1	99.1	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.1	99.1	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUN HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
GE 20000	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
GE 18000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GE 16000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GE 14000	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
GE 12000	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
GE 10000	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
GE 9000	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
GE 8000	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
GE 7000	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
GE 6000	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
GE 5000	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
GE 4500	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 4000	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
GE 3500	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 3000	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 2500	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 2000	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 1800	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 1500	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 1200	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 1000	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 900	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 800	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 700	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 600	98.7	98.8	98.8	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 500	98.9	99.0	99.0	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 400	98.9	99.2	99.2	99.7	99.7	99.7	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	98.9	99.2	99.2	99.7	99.7	99.7	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	98.9	99.2	99.2	99.7	99.7	99.7	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	98.9	99.2	99.2	99.7	99.7	99.7	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	98.9	99.2	99.2	99.7	99.7	99.7	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JUN HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
GE 20000	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
GE 18000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GE 16000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GE 14000	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
GE 12000	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
GE 10000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
GE 9000	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
GE 8000	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GE 7000	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
GE 6000	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
GE 5000	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 4500	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
GE 4000	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
GE 3500	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
GE 3000	95.9	95.9	95.9	95.9	95.9	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 2500	95.9	95.9	95.9	95.9	95.9	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 2000	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE 1800	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE 1500	97.2	97.2	97.2	97.2	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 1200	97.2	97.2	97.2	97.2	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 1000	97.2	97.2	97.2	97.2	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 900	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 800	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 700	97.9	97.9	98.0	98.1	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 600	97.9	97.9	98.0	98.1	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 500	98.3	98.3	98.4	98.6	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 400	98.4	98.6	98.7	98.8	99.0	99.1	99.1	99.2	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4
GE 300	98.4	98.6	98.7	98.9	99.1	99.2	99.2	99.3	99.3	99.4	99.6	99.6	99.6	99.6	99.6	99.6
GE 200	98.4	98.6	98.7	98.9	99.1	99.2	99.3	99.4	99.4	99.6	99.7	99.8	99.8	99.8	99.8	99.8
GE 100	98.6	98.7	98.8	99.0	99.2	99.3	99.4	99.6	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0
GE 000	98.6	98.7	98.8	99.0	99.2	99.3	99.4	99.6	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUN HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
GE 20000	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
GE 19000	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
GE 16000	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
GE 14000	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
GE 12000	71.2	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
GE 10000	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
GE 9000	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
GE 8000	80.3	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
GE 7000	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
GE 6000	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
GE 5000	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
GE 4500	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GE 4000	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 3500	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
GE 3000	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
GE 2500	94.4	94.4	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE 2000	95.1	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 1800	95.3	95.3	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
GE 1500	95.9	96.0	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 1200	96.2	96.3	96.4	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 1000	96.6	96.6	96.8	96.9	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 900	96.8	96.8	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 800	96.8	96.9	97.1	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 700	97.1	97.1	97.3	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 600	97.1	97.3	97.5	97.7	97.8	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GE 500	97.4	97.6	97.9	98.2	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 400	97.7	97.9	98.2	98.6	98.8	98.8	98.8	98.9	98.9	99.1	99.2	99.2	99.2	99.2	99.2	99.2
GE 300	97.7	98.0	98.3	98.7	99.0	99.1	99.1	99.2	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5
GE 200	97.9	98.1	98.5	98.9	99.3	99.3	99.4	99.5	99.5	99.7	99.7	99.7	99.8	99.8	99.8	99.8
GE 100	97.9	98.1	98.5	98.9	99.3	99.3	99.4	99.5	99.5	99.7	99.8	99.8	99.8	99.8	99.9	99.9
GE 000	97.9	98.1	98.5	98.9	99.3	99.3	99.4	99.5	99.5	99.7	99.8	99.8	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 7200

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625      STATION NAME: ELLSWORTH AFB/RAPID CITY SD      PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7      MONTH: JUL      HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 5	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	68.5	68.5	68.5	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
GE 20000	75.2	75.2	75.2	75.3	75.4	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
GE 18000	75.4	75.4	75.4	75.5	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
GE 16000	75.4	75.4	75.4	75.5	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
GE 14000	76.8	76.8	76.8	76.9	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
GE 12000	77.3	77.3	77.3	77.4	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 10000	82.8	82.8	82.8	82.9	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
GE 9000	83.0	83.0	83.0	83.1	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
GE 8000	86.2	86.2	86.2	86.3	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
GE 7000	87.7	87.7	87.7	87.8	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE 6000	88.7	88.7	88.7	88.8	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 5000	91.7	91.7	91.7	91.8	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
GE 4500	92.6	92.6	92.6	92.7	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
GE 4000	93.8	93.8	93.8	94.0	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 3500	94.3	94.3	94.3	94.5	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 3000	96.3	96.3	96.3	96.6	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 2500	96.7	96.7	96.7	96.9	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 2000	97.0	97.0	97.0	97.2	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 1800	97.0	97.0	97.0	97.2	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 1500	97.3	97.3	97.3	97.5	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 1200	97.7	97.7	97.7	98.0	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 1000	97.8	97.8	97.8	98.1	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 900	97.8	97.8	97.8	98.1	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 800	97.8	97.8	97.8	98.1	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 700	98.1	98.1	98.1	98.3	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 600	98.1	98.1	98.1	98.3	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 500	98.1	98.1	98.1	98.3	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 400	98.1	98.1	98.1	98.3	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 300	98.1	98.1	98.1	98.4	98.5	98.6	98.6	98.6	98.6	98.9	98.9	98.9	99.2	99.2	99.2	99.2
GE 200	98.2	98.2	98.2	98.5	98.6	98.7	98.7	98.7	98.7	99.0	99.0	99.0	99.5	99.5	99.5	99.5
GE 100	98.2	98.2	98.2	98.7	98.8	98.9	98.9	99.0	99.0	99.5	99.5	99.6	100.0	100.0	100.0	100.0
GE 000	98.2	98.2	98.2	98.7	98.8	98.9	98.9	99.0	99.0	99.5	99.5	99.6	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUL HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	67.8	68.0	68.0	68.1	68.1	68.2	68.2	68.2	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3
GE 20000	74.4	74.5	74.5	74.6	74.6	74.7	74.7	74.7	74.7	74.9	74.9	74.9	74.9	74.9	74.9	74.9
GE 18000	74.8	74.9	74.9	75.1	75.1	75.2	75.2	75.2	75.2	75.4	75.4	75.4	75.4	75.4	75.4	75.4
GE 16000	74.8	74.9	74.9	75.1	75.1	75.2	75.2	75.2	75.2	75.4	75.4	75.4	75.4	75.4	75.4	75.4
GE 14000	75.3	75.4	75.4	75.5	75.5	75.6	75.6	75.6	75.6	75.8	75.8	75.8	75.8	75.8	75.8	75.8
GE 12000	76.6	76.7	76.7	76.8	76.8	76.9	76.9	76.9	76.9	77.1	77.1	77.1	77.1	77.1	77.1	77.1
GE 10000	81.7	81.8	81.8	81.9	81.9	82.0	82.0	82.0	82.0	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GE 9000	82.0	82.2	82.2	82.3	82.3	82.4	82.4	82.4	82.4	82.6	82.6	82.6	82.6	82.6	82.6	82.6
GE 8000	86.1	86.2	86.2	86.3	86.3	86.5	86.5	86.5	86.5	86.7	86.7	86.7	86.7	86.7	86.7	86.7
GE 7000	86.8	86.9	86.9	87.0	87.0	87.1	87.1	87.1	87.1	87.3	87.3	87.3	87.3	87.3	87.3	87.3
GE 6000	88.6	88.7	88.7	88.8	88.8	88.9	88.9	88.9	88.9	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 5000	91.1	91.2	91.2	91.3	91.3	91.4	91.4	91.4	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE 4500	91.3	91.4	91.4	91.5	91.5	91.6	91.6	91.6	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 4000	93.3	93.4	93.4	93.5	93.5	93.7	93.7	93.7	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 3500	93.7	93.8	93.8	93.9	93.9	94.0	94.0	94.0	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 3000	94.8	94.9	94.9	95.1	95.1	95.2	95.2	95.3	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5
GE 2500	95.1	95.2	95.2	95.3	95.3	95.4	95.4	95.5	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 2000	95.3	95.4	95.4	95.5	95.5	95.6	95.6	95.7	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 1800	95.3	95.4	95.4	95.5	95.5	95.6	95.6	95.7	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 1500	95.7	95.8	95.8	95.9	95.9	96.0	96.0	96.1	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 1200	95.7	95.8	95.9	96.0	96.0	96.1	96.1	96.2	96.2	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 1000	96.0	96.1	96.2	96.3	96.3	96.5	96.5	96.6	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 900	96.0	96.1	96.2	96.3	96.3	96.5	96.5	96.6	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 800	96.0	96.1	96.2	96.5	96.5	96.6	96.6	96.7	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 700	96.3	96.5	96.6	96.8	96.8	96.9	96.9	97.0	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 600	96.3	96.5	96.6	96.8	96.8	96.9	96.9	97.0	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.3
GE 500	96.7	96.8	97.0	97.2	97.2	97.3	97.3	97.5	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.8
GE 400	97.0	97.1	97.3	97.5	97.5	97.6	97.6	97.8	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.2
GE 300	97.2	97.3	97.5	97.7	98.0	98.1	98.1	98.3	98.3	98.6	98.6	98.6	98.7	98.7	98.7	98.8
GE 200	97.2	97.4	97.6	97.8	98.2	98.3	98.3	98.5	98.5	99.0	99.0	99.0	99.1	99.1	99.1	99.2
GE 100	97.2	97.4	97.6	97.8	98.3	98.4	98.4	98.6	98.6	99.4	99.4	99.5	99.8	99.8	99.8	99.9
GE 000	97.2	97.4	97.6	97.8	98.3	98.4	98.4	98.6	98.6	99.4	99.4	99.5	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625      STATION NAME: ELLSWORTH AFB/RAPID CITY SD      PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7      MONTH: JUL      HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	64.9	64.9	65.1	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
GE 20000	74.3	74.3	74.4	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
GE 18000	74.5	74.5	74.6	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
GE 16000	74.7	74.7	74.8	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
GE 14000	75.4	75.4	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
GE 12000	77.6	77.6	77.7	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
GE 10000	82.8	82.8	82.9	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
GE 9000	83.0	83.0	83.1	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
GE 8000	87.2	87.2	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE 7000	88.2	88.2	88.3	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
GE 6000	89.7	89.7	89.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 5000	90.4	90.4	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
GE 4500	90.4	90.4	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
GE 4000	92.5	92.5	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
GE 3500	92.9	92.9	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 3000	93.7	93.7	93.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 2500	93.9	93.9	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
GE 2000	94.3	94.3	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
GE 1800	94.5	94.5	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 1500	94.9	94.9	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 1200	95.4	95.4	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1000	95.8	95.8	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 900	95.9	95.9	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 800	95.9	95.9	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 700	95.9	95.9	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 600	96.0	96.0	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 500	96.5	96.5	96.6	97.0	97.1	97.1	97.1	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 400	96.7	96.9	97.0	97.5	97.6	97.8	98.1	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 300	96.8	97.1	97.2	97.7	98.1	98.3	98.8	99.2	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 200	96.8	97.1	97.3	97.8	98.2	98.4	98.9	99.5	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 100	96.8	97.1	97.3	97.8	98.3	98.5	99.0	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	96.8	97.1	97.3	97.8	98.3	98.5	99.0	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS      930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUL HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1 .	GE 3/8	GE 1/4	GE 0
NO CEIL	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
GE 20000	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
GE 18000	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
GE 16000	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
GE 14000	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
GE 12000	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
GE 10000	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
GE 9000	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
GE 8000	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 7000	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 6000	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 5000	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 4500	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 4000	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
GE 3500	93.8	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE 3000	94.8	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE 2500	95.4	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 2000	95.8	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 1800	95.8	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 1500	96.2	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 1200	96.8	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 1000	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 900	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 800	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 700	97.8	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 600	98.5	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 500	98.6	98.8	99.0	99.0	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 400	98.7	99.0	99.2	99.2	99.5	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 300	98.7	99.0	99.2	99.4	99.6	99.6	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	98.7	99.0	99.2	99.4	99.6	99.6	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	98.7	99.0	99.2	99.4	99.6	99.6	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	98.7	99.0	99.2	99.4	99.6	99.6	99.6	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JUL HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
GE 20000	74.8	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
GE 18000	74.9	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
GE 16000	75.3	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
GE 14000	75.9	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
GE 12000	77.6	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
GE 10000	82.3	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
GE 9000	82.7	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
GE 8000	87.6	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
GE 7000	88.1	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
GE 6000	88.9	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 5000	91.5	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
GE 4500	92.3	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
GE 4000	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
GE 3500	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 3000	96.1	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 2500	96.3	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 2000	97.0	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 1800	97.0	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 1500	97.7	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 1200	98.2	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 1000	98.5	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 900	98.6	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 800	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 700	99.0	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 600	99.1	99.5	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 500	99.1	99.5	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 400	99.1	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 300	99.1	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	99.1	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	99.1	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.1	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUL HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
GE 20000	67.6	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
GE 18000	67.8	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 16000	68.3	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
GE 14000	69.4	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
GE 12000	71.5	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
GE 10000	77.5	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
GE 9000	78.3	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
GE 8000	83.1	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
GE 7000	84.0	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
GE 6000	86.3	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
GE 5000	90.9	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
GE 4500	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE 4000	95.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 3500	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 3000	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 2500	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 2000	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 1800	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 1500	97.6	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 1200	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 1000	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	95.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 900	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 800	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 700	98.9	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 600	98.9	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 500	99.0	99.5	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 400	99.1	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	99.1	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	99.1	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	99.1	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.1	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JUL HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
GE 20000	70.6	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
GE 18000	70.6	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
GE 16000	70.9	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
GE 14000	71.6	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
GE 12000	73.1	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
GE 10000	78.4	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
GE 9000	78.7	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
GE 8000	83.8	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
GE 7000	85.6	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
GE 6000	88.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
GE 5000	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE 4500	92.9	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 4000	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 3500	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 3000	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 2500	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 2000	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 1800	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 1500	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 1200	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 1000	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 900	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 800	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 700	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 600	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 500	98.7	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 400	98.7	99.0	99.4	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7
GE 300	98.8	99.1	99.5	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
GE 200	98.8	99.1	99.5	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.8	99.9	100.0	100.0	100.0	100.0
GE 100	98.8	99.1	99.5	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0
GE 000	98.8	99.1	99.5	99.6	99.6	99.6	99.6	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUL HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	63.7	63.7	63.7	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
GE 20000	74.4	74.4	74.4	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
GE 18000	74.4	74.4	74.4	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
GE 16000	74.5	74.5	74.5	74.5	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
GE 14000	75.4	75.4	75.4	75.4	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
GE 12000	76.5	76.5	76.5	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
GE 10000	81.0	81.0	81.0	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
GE 9000	81.1	81.1	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
GE 8000	85.5	85.5	85.5	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 7000	86.3	86.3	86.3	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
GE 6000	87.8	87.8	87.8	87.8	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
GE 5000	91.8	91.8	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 4500	92.5	92.5	92.5	92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE 4000	95.5	95.5	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 3500	95.9	95.9	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 3000	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 2500	97.4	97.4	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 2000	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 1800	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 1500	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 1200	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 1000	98.4	98.4	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 900	98.4	98.4	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 800	98.4	98.4	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 700	98.5	98.5	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 600	98.7	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 500	98.7	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 400	98.7	98.7	98.8	98.8	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 300	98.7	98.7	98.8	98.8	99.0	99.0	99.0	99.1	99.1	99.6	99.6	99.6	99.7	99.7	99.7	99.7
GE 200	98.7	98.7	98.8	98.8	99.0	99.0	99.0	99.1	99.1	99.6	99.6	99.6	99.7	99.7	99.7	99.7
GE 100	98.7	98.7	98.8	98.8	99.0	99.0	99.0	99.1	99.1	99.6	99.6	99.6	99.7	99.7	100.0	100.0
GE 000	98.7	98.7	98.8	98.8	99.0	99.0	99.0	99.1	99.1	99.6	99.6	99.6	99.7	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625      STATION NAME: ELLSWORTH AFB/RAPID CITY SD      PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7      MONTH: JUL HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	62.9	62.9	62.9	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
GE 20000	73.7	73.8	73.8	73.9	73.9	73.9	73.9	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0
GE 18000	73.9	74.0	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
GE 16000	74.1	74.2	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
GE 14000	74.9	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2
GE 12000	76.5	76.6	76.6	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
GE 10000	81.5	81.7	81.7	81.7	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
GE 9000	81.9	82.0	82.0	82.0	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
GE 8000	86.1	86.3	86.3	86.3	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
GE 7000	87.1	87.2	87.2	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
GE 6000	88.6	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
GE 5000	91.4	91.6	91.6	91.6	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
GE 4500	92.0	92.1	92.1	92.2	92.2	92.2	92.2	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3
GE 4000	94.2	94.3	94.4	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
GE 3500	94.8	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE 3000	95.7	95.9	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 2500	96.0	96.1	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 2000	96.5	96.6	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 1800	96.6	96.7	96.7	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 1500	97.0	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 1200	97.3	97.4	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 1000	97.6	97.7	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GE 900	97.6	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 800	97.6	97.8	97.8	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 700	97.9	98.0	98.1	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 600	98.0	98.2	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 500	98.2	98.3	98.5	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 400	98.3	98.5	98.7	98.8	98.9	98.9	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 300	98.3	98.6	98.7	98.9	99.1	99.1	99.2	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.7
GE 200	98.3	98.6	98.8	98.9	99.1	99.2	99.2	99.4	99.4	99.7	99.7	99.8	99.8	99.8	99.8	99.8
GE 100	98.3	98.6	98.8	99.0	99.2	99.2	99.3	99.5	99.5	99.8	99.8	99.8	99.9	99.9	100.0	100.0
GE 000	98.3	98.6	98.8	99.0	99.2	99.2	99.3	99.5	99.5	99.8	99.8	99.8	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 7440



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: AUG HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	70.1	70.1	70.1	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
GE 20000	77.7	77.7	77.7	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
GE 18000	78.1	78.1	78.1	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
GE 16000	78.3	78.3	78.3	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
GE 14000	78.4	78.4	78.4	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
GE 12000	78.8	78.8	78.8	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
GE 10000	84.7	84.7	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
GE 9000	85.5	85.5	85.5	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 8000	89.7	89.7	89.7	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 7000	91.4	91.4	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
GE 6000	91.5	91.5	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE 5000	94.0	94.0	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
GE 4500	94.1	94.1	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 4000	94.9	94.9	94.9	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE 3500	95.6	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 3000	96.2	96.2	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 2500	96.6	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 2000	97.5	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 1800	97.6	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 1500	97.7	97.8	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 1200	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 1000	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 900	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 800	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 700	98.4	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 600	98.8	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 500	99.0	99.1	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 400	99.2	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 300	99.2	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
GE 200	99.2	99.4	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
GE 100	99.2	99.4	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.9	99.9	99.9	99.9	100.0	100.0
GE 000	99.2	99.4	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.9	99.9	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: AUG HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GE 20000	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
GE 18000	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
GE 16000	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
GE 14000	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
GE 12000	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
GE 10000	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
GE 9000	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
GE 8000	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 7000	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 6000	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
GE 5000	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
GE 4500	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
GE 4000	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE 3500	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
GE 3000	95.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 2500	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 2000	96.2	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 1800	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 1500	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 1200	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 1000	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 900	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 800	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 700	97.6	97.8	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 600	97.7	98.0	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 500	97.7	98.0	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 400	98.2	98.4	98.5	98.5	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 300	98.4	98.6	98.7	98.7	99.0	99.0	99.1	99.1	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4
GE 200	98.4	98.6	98.7	98.7	99.0	99.0	99.2	99.2	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.7
GE 100	98.4	98.6	98.8	98.8	99.1	99.1	99.4	99.4	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.9
GE 000	98.4	98.6	98.8	98.8	99.1	99.1	99.4	99.4	99.5	99.5	99.7	99.7	99.7	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: AUG HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
GE 20000	76.5	76.6	76.6	76.6	76.6	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
GE 18000	76.6	76.7	76.7	76.7	76.7	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
GE 16000	76.6	76.7	76.7	76.7	76.7	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
GE 14000	76.9	77.0	77.0	77.0	77.0	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
GE 12000	78.8	78.9	78.9	78.9	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
GE 10000	83.9	84.0	84.0	84.0	84.0	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
GE 9000	84.1	84.2	84.2	84.2	84.3	84.3	84.4	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
GE 8000	88.6	88.7	88.7	88.7	88.8	88.8	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 7000	89.4	89.5	89.5	89.5	89.6	89.6	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 6000	90.5	90.6	90.8	90.8	90.9	90.9	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
GE 5000	92.0	92.2	92.3	92.4	92.5	92.5	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
GE 4500	92.5	92.6	92.7	92.8	92.9	92.9	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 4000	93.0	93.1	93.2	93.4	93.5	93.5	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
GE 3500	93.8	93.9	94.0	94.2	94.3	94.3	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
GE 3000	94.4	94.5	94.6	94.8	94.9	94.9	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 2500	95.1	95.2	95.3	95.5	95.6	95.6	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 2000	95.4	95.5	95.6	95.8	95.9	95.9	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 1800	95.4	95.5	95.6	95.8	95.9	95.9	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 1500	95.7	95.8	95.9	96.1	96.2	96.2	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 1200	96.5	96.6	96.7	96.9	97.0	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 1000	96.8	96.9	97.1	97.4	97.5	97.5	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 900	96.8	96.9	97.1	97.4	97.5	97.5	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 800	96.9	97.0	97.2	97.5	97.6	97.6	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 700	97.0	97.1	97.4	97.7	97.8	97.8	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 600	97.0	97.1	97.4	97.7	98.0	98.0	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 500	97.1	97.2	97.7	98.2	98.4	98.4	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 400	97.3	97.5	98.1	98.5	98.7	98.7	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 300	97.5	97.7	98.3	98.9	99.1	99.2	99.6	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 200	97.5	97.7	98.3	99.0	99.2	99.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE 100	97.5	97.7	98.3	99.0	99.2	99.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE 000	97.5	97.7	98.3	99.0	99.2	99.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: AUG HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GE 20000	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
GE 18000	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
GE 16000	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
GE 14000	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 12000	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
GE 10000	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
GE 9000	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
GE 8000	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 7000	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 6000	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 5000	92.6	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
GE 4500	92.9	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 4000	94.2	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE 3500	94.8	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 3000	95.8	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 2500	96.2	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 2000	96.5	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 1800	96.5	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 1500	96.8	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 1200	97.1	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 1000	98.0	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 900	98.2	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 800	98.5	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 700	98.5	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 600	98.8	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 500	98.8	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 400	99.0	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 300	99.0	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 200	99.0	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 100	99.0	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 000	99.0	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: AUG HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 20000	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
GE 18000	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
GE 16000	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
GE 14000	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
GE 12000	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
GE 10000	83.5	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
GE 9000	84.1	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
GE 8000	86.5	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
GE 7000	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
GE 6000	89.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
GE 5000	93.0	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
GE 4500	93.7	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE 4000	95.7	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 3500	96.8	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 3000	97.3	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 2500	97.5	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 2000	98.1	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 1800	98.1	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 1500	98.1	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 1200	98.4	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 1000	98.6	99.0	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 900	98.6	99.0	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 800	98.6	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 700	98.6	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 600	98.6	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 500	98.7	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 400	98.7	99.5	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	98.7	99.5	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	98.7	99.5	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	98.7	99.5	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	98.7	99.5	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625      STATION NAME: ELLSWORTH AFB/RAPID CITY SD      PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7      MONTH: AUG      HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 20000	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
GE 18000	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
GE 16000	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
GE 14000	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
GE 12000	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
GE 10000	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
GE 9000	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 8000	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
GE 7000	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
GE 6000	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
GE 5000	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 4500	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 4000	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.6	97.6	97.6
GE 3500	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.7	98.7
GE 3000	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1
GE 2500	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1
GE 2000	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4
GE 1800	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4
GE 1500	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4
GE 1200	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4
GE 1000	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4
GE 900	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4
GE 800	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4
GE 700	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4
GE 600	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5
GE 500	99.2	99.4	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7
GE 400	99.2	99.4	99.4	99.4	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
GE 300	99.2	99.4	99.4	99.4	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GE 200	99.2	99.4	99.4	99.4	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GE 100	99.2	99.4	99.4	99.4	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GE 000	99.2	99.4	99.4	99.4	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS      930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625      STATION NAME: ELLSWORTH AFB/RAPID CITY SD      PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7      MONTH: AUG      HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
GE 20000	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
GE 18000	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
GE 16000	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
GE 14000	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
GE 12000	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
GE 10000	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
GE 9000	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
GE 8000	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE 7000	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
GE 6000	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
GE 5000	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 4500	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 4000	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 3500	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 3000	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 2500	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 2000	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 1800	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 1500	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 1200	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 1000	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 900	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 800	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 700	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 600	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 500	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 400	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.5	99.5	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS    930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: AUG HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
GE 20000	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
GE 18000	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 16000	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 14000	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 12000	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
GE 10000	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
GE 9000	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
GE 8000	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
GE 7000	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
GE 6000	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
GE 5000	94.1	94.2	94.2	94.3	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
GE 4500	94.7	94.8	94.8	94.9	94.9	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE 4000	95.8	95.9	95.9	96.0	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 3500	97.0	97.1	97.1	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 3000	97.2	97.3	97.3	97.4	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 2500	97.3	97.4	97.4	97.5	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 2000	97.4	97.5	97.5	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 1800	97.4	97.5	97.5	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 1500	97.6	97.7	97.7	97.8	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 1200	98.1	98.2	98.2	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 1000	98.4	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 900	98.4	98.5	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 800	98.5	98.6	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 700	98.7	98.8	98.8	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 600	98.9	99.0	99.0	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 500	99.0	99.1	99.1	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 400	99.5	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 300	99.7	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	99.7	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	99.7	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	99.7	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: AUG HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
GE 20000	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
GE 18000	78.1	78.1	78.1	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
GE 16000	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
GE 14000	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
GE 12000	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
GE 10000	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
GE 9000	85.4	85.5	85.5	85.5	85.5	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 8000	89.0	89.1	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
GE 7000	89.9	90.0	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 6000	91.3	91.4	91.4	91.4	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
GE 5000	93.7	93.8	93.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 4500	94.1	94.2	94.3	94.3	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
GE 4000	95.4	95.5	95.6	95.6	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 3500	96.1	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.5	96.5	96.5	96.5
GE 3000	96.7	96.9	96.9	97.0	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 2500	97.0	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.4	97.4	97.4	97.4
GE 2000	97.4	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8
GE 1800	97.4	97.6	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 1500	97.6	97.8	97.8	97.9	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 1200	97.9	98.1	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 1000	98.2	98.4	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 900	98.3	98.4	98.5	98.6	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 800	98.3	98.5	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.8
GE 700	98.4	98.6	98.7	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 600	98.5	98.7	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 500	98.6	98.8	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 400	98.8	99.1	99.3	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 300	98.9	99.1	99.4	99.5	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 200	98.9	99.1	99.4	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9
GE 100	98.9	99.1	99.4	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0
GE 000	98.9	99.1	99.4	99.5	99.7	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: SEP HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	69.1	69.1	69.2	69.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
GE 20000	71.8	71.8	71.9	71.9	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
GE 18000	71.8	71.8	71.9	71.9	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
GE 16000	71.8	71.8	71.9	71.9	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
GE 14000	72.2	72.2	72.3	72.3	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
GE 12000	73.9	73.9	74.0	74.0	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
GE 10000	76.8	76.8	76.9	76.9	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
GE 9000	77.2	77.2	77.3	77.3	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 8000	79.4	79.4	79.6	79.6	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
GE 7000	79.9	79.9	80.0	80.0	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
GE 6000	81.3	81.3	81.4	81.4	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
GE 5000	83.9	83.9	84.0	84.0	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
GE 4500	84.4	84.4	84.6	84.6	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
GE 4000	86.9	86.9	87.0	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GE 3500	87.8	87.8	87.9	87.9	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE 3000	88.9	88.9	89.0	89.0	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
GE 2500	89.3	89.3	89.4	89.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
GE 2000	90.3	90.3	90.4	90.4	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
GE 1800	90.7	90.7	90.8	90.8	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 1500	91.1	91.1	91.2	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
GE 1200	91.9	91.9	92.0	92.0	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
GE 1000	92.8	92.8	92.9	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
GE 900	93.0	93.0	93.1	93.2	93.4	93.4	93.4	93.4	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.6
GE 800	93.7	93.7	93.8	93.9	94.1	94.1	94.1	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 700	94.1	94.1	94.2	94.3	94.6	94.6	94.6	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 600	95.0	95.0	95.1	95.2	95.4	95.4	95.4	95.4	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.7
GE 500	95.3	95.3	95.4	95.6	95.8	95.8	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	96.0
GE 400	96.0	96.0	96.1	96.2	96.6	96.6	96.6	96.6	96.6	96.8	96.8	96.8	96.9	96.9	97.1	97.2
GE 300	96.0	96.0	96.2	96.3	96.8	96.8	96.9	96.9	96.9	97.1	97.1	97.2	97.3	97.3	97.6	97.7
GE 200	96.3	96.3	96.6	96.8	97.4	97.4	97.7	97.8	98.0	98.3	98.3	98.4	98.8	98.8	99.0	99.1
GE 100	96.3	96.3	96.6	96.8	97.4	97.4	97.7	97.8	98.0	98.3	98.3	98.4	98.8	99.0	99.4	99.9
GE 000	96.3	96.3	96.6	96.8	97.4	97.4	97.7	97.8	98.0	98.3	98.3	98.4	98.8	99.0	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 990

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: SEP HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 20000	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
GE 18000	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
GE 16000	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
GE 14000	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
GE 12000	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
GE 10000	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
GE 9000	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
GE 8000	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
GE 7000	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
GE 6000	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
GE 5000	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
GE 4500	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
GE 4000	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
GE 3500	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
GE 3000	88.4	88.4	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
GE 2500	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
GE 2000	90.1	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
GE 1800	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
GE 1500	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
GE 1200	91.6	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
GE 1000	92.4	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE 900	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
GE 800	92.8	92.8	92.9	92.9	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
GE 700	92.9	92.9	93.0	93.0	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 600	93.2	93.2	93.4	93.4	93.4	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
GE 500	93.6	93.6	93.8	93.8	93.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 400	94.2	94.2	94.6	94.7	94.8	94.9	95.1	95.1	95.1	95.2	95.3	95.4	95.4	95.4	95.8	95.8
GE 300	94.4	94.4	94.8	94.9	95.3	95.4	96.0	96.1	96.1	96.2	96.3	96.4	96.7	96.7	97.0	97.1
GE 200	94.7	94.8	95.1	95.2	95.8	95.9	96.6	96.8	96.8	96.9	97.0	97.1	97.9	97.9	98.2	98.6
GE 100	94.8	94.9	95.2	95.3	95.9	96.0	96.7	96.9	96.9	97.4	97.6	97.7	98.6	98.8	99.4	99.9
GE 000	94.8	94.9	95.2	95.3	95.9	96.0	96.7	96.9	96.9	97.4	97.6	97.7	98.6	98.8	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: SEP HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	58.8	58.9	59.2	59.2	59.2	59.2	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
GE 20000	65.0	65.1	65.4	65.4	65.4	65.4	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
GE 18000	65.6	65.7	66.0	66.0	66.0	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
GE 16000	65.7	65.8	66.1	66.1	66.1	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
GE 14000	66.6	66.7	67.0	67.0	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
GE 12000	67.6	67.7	68.0	68.0	68.0	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.2	68.2
GE 10000	70.3	70.4	70.8	70.9	70.9	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.1	71.1
GE 9000	71.1	71.2	71.6	71.7	71.7	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.9	71.9
GE 8000	74.7	74.8	75.1	75.2	75.2	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.4	75.4	75.6	75.6
GE 7000	75.7	75.8	76.1	76.2	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.4	76.4	76.6	76.6
GE 6000	77.7	77.8	78.1	78.2	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.3	78.4	78.4	78.6	78.6
GE 5000	80.1	80.2	80.6	80.7	80.7	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.9	80.9	81.0	81.0
GE 4500	80.6	80.7	81.0	81.1	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.3	81.3	81.4	81.4
GE 4000	82.6	82.7	83.0	83.3	83.3	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.6	83.6	83.7	83.7
GE 3500	83.7	83.8	84.2	84.6	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.8	84.8	84.9	84.9
GE 3000	85.3	85.4	86.0	86.3	86.3	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.6	86.6	86.7	86.7
GE 2500	86.2	86.3	86.9	87.2	87.2	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.4	87.4	87.6	87.6
GE 2000	86.9	87.0	87.6	87.9	87.9	87.9	88.0	88.0	88.0	88.0	88.0	88.0	88.1	88.1	88.2	88.2
GE 1800	87.0	87.1	87.7	88.0	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.2	88.2	88.3	88.3
GE 1500	88.1	88.2	88.8	89.2	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.4	89.4	89.6	89.6
GE 1200	89.0	89.1	89.7	90.2	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.6	90.6	90.7	90.7
GE 1000	89.7	89.8	90.4	91.0	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.3	91.3	91.4	91.4
GE 900	89.9	90.0	90.7	91.2	91.3	91.3	91.6	91.7	91.7	91.7	91.7	91.7	91.8	91.8	91.9	91.9
GE 800	90.4	90.7	91.3	91.9	92.0	92.0	92.2	92.3	92.3	92.3	92.3	92.3	92.4	92.4	92.6	92.6
GE 700	90.8	91.0	91.7	92.2	92.3	92.3	92.6	92.7	92.7	92.7	92.7	92.7	92.8	92.8	92.9	92.9
GE 600	90.8	91.1	91.8	92.4	92.8	92.8	93.0	93.1	93.1	93.1	93.1	93.1	93.2	93.2	93.3	93.3
GE 500	91.6	91.9	92.6	93.3	93.7	93.7	93.9	94.0	94.0	94.0	94.0	94.0	94.1	94.1	94.2	94.2
GE 400	92.2	92.8	93.4	94.6	94.9	94.9	95.2	95.3	95.3	95.4	95.6	95.6	95.7	95.7	95.8	95.8
GE 300	92.7	93.2	93.9	95.1	95.4	95.4	95.8	96.0	96.2	96.4	96.6	96.7	97.0	97.0	97.1	97.1
GE 200	92.7	93.2	93.9	95.1	95.4	95.4	95.8	96.0	96.2	96.4	96.9	97.1	97.9	98.0	98.6	98.8
GE 100	92.7	93.2	93.9	95.1	95.4	95.4	95.8	96.0	96.2	96.6	97.0	97.4	98.3	98.7	99.4	99.7
GE 000	92.7	93.2	93.9	95.1	95.4	95.4	95.8	96.0	96.2	96.6	97.0	97.4	98.3	98.7	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: SEP HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	62.0	62.1	62.1	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
GE 20000	68.4	68.6	68.6	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE 18000	69.0	69.1	69.1	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
GE 16000	69.0	69.1	69.1	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
GE 14000	69.8	69.9	69.9	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
GE 12000	70.8	70.9	70.9	71.0	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
GE 10000	73.2	73.3	73.3	73.4	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
GE 9000	74.3	74.4	74.4	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
GE 8000	75.9	76.0	76.0	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
GE 7000	77.2	77.3	77.3	77.4	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 6000	78.3	78.4	78.4	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
GE 5000	79.6	79.7	79.7	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
GE 4500	79.6	79.7	79.7	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
GE 4000	82.8	82.9	83.0	83.2	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
GE 3500	83.6	83.7	83.8	84.0	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
GE 3000	84.7	84.8	84.9	85.1	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
GE 2500	86.0	86.2	86.3	86.6	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
GE 2000	86.7	86.9	87.0	87.2	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 1800	87.0	87.2	87.3	87.6	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
GE 1500	87.9	88.1	88.3	88.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 1200	89.8	90.0	90.6	90.9	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
GE 1000	90.6	90.8	91.3	91.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
GE 900	90.9	91.1	91.7	92.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
GE 800	91.9	92.1	92.7	93.2	93.7	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
GE 700	92.6	92.8	93.3	94.1	94.7	94.7	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
GE 600	93.0	93.2	94.1	95.0	95.6	95.6	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 500	93.1	93.3	94.4	95.3	95.9	95.9	96.1	96.2	96.2	96.2	96.3	96.4	96.4	96.4	96.4	96.4
GE 400	93.4	93.7	94.9	95.9	96.4	96.4	96.9	97.2	97.2	97.3	97.4	97.7	97.7	97.7	97.7	97.7
GE 300	93.6	93.8	95.1	96.3	96.9	96.9	97.3	97.7	97.7	98.3	98.6	98.9	99.0	99.0	99.0	99.0
GE 200	93.7	93.9	95.2	96.4	97.1	97.1	97.6	97.9	97.9	98.7	98.9	99.2	99.4	99.4	99.6	99.6
GE 100	93.7	93.9	95.2	96.4	97.1	97.1	97.6	97.9	97.9	98.7	98.9	99.6	99.9	99.9	100.0	100.0
GE 000	93.7	93.9	95.2	96.4	97.1	97.1	97.6	97.9	97.9	98.7	98.9	99.6	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: SEP HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	60.9	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
GE 20000	69.3	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
GE 18000	70.6	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
GE 16000	70.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GE 14000	70.9	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
GE 12000	71.9	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
GE 10000	73.6	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
GE 9000	75.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
GE 8000	77.2	77.6	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
GE 7000	78.4	78.8	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
GE 6000	78.9	79.2	79.2	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
GE 5000	80.0	80.3	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
GE 4500	80.2	80.6	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
GE 4000	83.2	83.6	83.6	83.7	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
GE 3500	84.4	84.8	84.8	84.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
GE 3000	85.1	85.4	85.4	85.7	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 2500	86.9	87.2	87.3	87.6	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
GE 2000	88.1	88.4	88.6	88.8	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 1800	88.6	88.9	89.1	89.3	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
GE 1500	90.0	90.3	90.6	90.9	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
GE 1200	92.1	92.4	93.1	93.6	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE 1000	92.6	93.0	93.7	94.2	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 900	93.3	93.8	94.6	95.1	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 800	93.9	94.3	95.1	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 700	94.1	94.6	95.3	96.1	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 600	94.1	94.7	95.6	96.3	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 500	94.4	95.0	96.3	97.1	98.1	98.1	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 400	94.9	95.4	97.0	97.8	98.8	98.8	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 300	94.9	95.4	97.0	97.8	98.8	98.9	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 200	94.9	95.4	97.0	97.8	98.9	99.0	99.6	99.7	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0
GE 100	94.9	95.4	97.0	97.8	98.9	99.0	99.6	99.7	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0
GE 000	94.9	95.4	97.0	97.8	98.9	99.0	99.6	99.7	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: SEP HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	58.1	58.3	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
GE 20000	69.2	69.4	69.4	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
GE 18000	69.6	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
GE 16000	69.6	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
GE 14000	69.9	70.1	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
GE 12000	71.8	72.0	72.0	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
GE 10000	74.0	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
GE 9000	74.6	74.8	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
GE 8000	76.9	77.1	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
GE 7000	79.6	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
GE 6000	80.1	80.3	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
GE 5000	81.7	81.9	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
GE 4500	82.1	82.3	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
GE 4000	85.8	86.0	86.1	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 3500	86.6	86.8	86.9	87.0	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
GE 3000	87.7	87.9	88.0	88.1	88.1	88.1	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
GE 2500	88.8	89.0	89.1	89.2	89.2	89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
GE 2000	90.9	91.1	91.2	91.3	91.3	91.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE 1800	91.1	91.3	91.4	91.6	91.6	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 1500	92.7	92.9	93.0	93.1	93.1	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
GE 1200	93.7	93.9	94.0	94.1	94.1	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
GE 1000	94.0	94.2	94.4	94.6	94.6	94.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
GE 900	94.2	94.4	94.7	94.8	94.8	94.8	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
GE 800	94.7	94.9	95.2	95.3	95.3	95.4	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 700	94.8	95.2	95.6	95.8	95.8	95.9	96.2	96.2	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE 600	95.0	95.4	95.8	96.1	96.1	96.2	96.7	96.7	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 500	95.3	95.8	96.1	96.7	96.8	96.9	97.6	97.6	97.6	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GE 400	95.6	96.0	96.7	97.2	97.8	97.9	98.8	98.8	98.8	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 300	95.6	96.0	96.7	97.2	97.9	98.0	98.9	98.9	98.9	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 200	95.6	96.0	96.8	97.3	98.0	98.1	99.0	99.0	99.0	99.8	99.8	100.0	100.0	100.0	100.0	100.0
GE 100	95.6	96.0	96.8	97.3	98.0	98.1	99.0	99.0	99.0	99.8	99.8	100.0	100.0	100.0	100.0	100.0
GE 000	95.6	96.0	96.8	97.3	98.0	98.1	99.0	99.0	99.0	99.8	99.8	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: SEP HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	61.0	61.0	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
GE 20000	69.1	69.1	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
GE 18000	69.3	69.3	69.3	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
GE 16000	69.3	69.3	69.3	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
GE 14000	69.6	69.6	69.6	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
GE 12000	71.0	71.0	71.0	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
GE 10000	74.7	74.7	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
GE 9000	75.1	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
GE 8000	79.0	79.0	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
GE 7000	81.7	81.7	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
GE 6000	82.8	82.8	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
GE 5000	85.0	85.0	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
GE 4500	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 4000	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
GE 3500	89.6	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
GE 3000	90.0	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 2500	91.4	91.4	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE 2000	92.9	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
GE 1800	92.9	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
GE 1500	93.7	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
GE 1200	94.1	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 1000	94.4	94.4	94.4	94.6	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
GE 900	94.7	94.7	94.7	94.8	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
GE 800	94.9	94.9	95.0	95.1	95.2	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 700	95.1	95.1	95.2	95.3	95.4	95.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 600	95.3	95.3	95.4	95.6	95.7	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 500	95.9	95.9	96.1	96.3	96.4	96.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 400	96.1	96.1	96.6	96.8	97.4	97.4	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 300	96.4	96.4	97.0	97.2	98.0	98.0	98.2	98.2	98.2	98.4	98.7	98.7	98.7	98.7	98.7	98.7
GE 200	96.6	96.6	97.2	97.6	98.3	98.3	98.6	98.6	98.6	98.9	99.3	99.3	99.6	99.6	99.6	99.6
GE 100	96.6	96.6	97.2	97.6	98.3	98.3	98.6	98.6	98.6	98.9	99.6	99.6	100.0	100.0	100.0	100.0
GE 000	96.6	96.6	97.2	97.6	98.3	98.3	98.6	98.6	98.6	98.9	99.6	99.6	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900



OPERATING LOCATION "A"  
USAFETA", ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: SEP HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
GE 20000	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
GE 18000	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
GE 16000	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
GE 14000	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
GE 12000	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
GE 10000	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
GE 9000	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
GE 8000	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
GE 7000	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
GE 6000	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
GE 5000	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
GE 4500	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 4000	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
GE 3500	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
GE 3000	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 2500	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 2000	92.1	92.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
GE 1800	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
GE 1500	93.1	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
GE 1200	93.6	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
GE 1000	94.4	94.6	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
GE 900	94.4	94.6	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
GE 800	94.7	94.8	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
GE 700	94.9	95.0	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 600	95.1	95.2	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 500	95.4	95.6	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 400	95.8	96.0	96.1	96.4	96.4	96.4	96.6	96.6	96.6	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 300	96.3	96.6	96.7	97.0	97.0	97.0	97.1	97.1	97.1	97.8	97.9	97.9	97.9	97.9	97.9	98.0
GE 200	96.6	96.8	97.0	97.3	97.3	97.4	97.8	97.9	97.9	98.7	98.9	98.9	99.2	99.2	99.2	99.3
GE 100	96.6	96.8	97.0	97.3	97.3	97.4	97.8	97.9	97.9	98.9	99.1	99.1	99.6	99.6	99.7	99.8
GE 000	96.6	96.8	97.0	97.3	97.3	97.4	97.8	97.9	97.9	98.9	99.1	99.1	99.6	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: SEP HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	63.1	63.2	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
GE 20000	69.1	69.2	69.3	69.3	69.3	69.3	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
GE 18000	69.5	69.6	69.6	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
GE 16000	69.5	69.6	69.7	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
GE 14000	69.9	70.0	70.1	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
GE 12000	71.3	71.4	71.5	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
GE 10000	74.0	74.1	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
GE 9000	74.7	74.8	74.9	74.9	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
GE 8000	77.3	77.4	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.6	77.6	77.6	77.6
GE 7000	78.9	79.0	79.0	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
GE 6000	80.2	80.3	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.5	80.5	80.5	80.5
GE 5000	82.3	82.3	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.6	82.6
GE 4500	82.9	83.0	83.1	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
GE 4000	85.6	85.7	85.8	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 3500	86.4	86.5	86.6	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
GE 3000	87.5	87.6	87.8	87.9	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.1	88.1
GE 2500	88.6	88.7	88.9	89.0	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
GE 2000	89.8	89.9	90.0	90.1	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
GE 1800	90.0	90.1	90.3	90.4	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
GE 1500	90.9	91.0	91.2	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
GE 1200	92.0	92.1	92.4	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.8	92.8	92.8	92.8
GE 1000	92.6	92.8	93.1	93.3	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
GE 900	92.9	93.0	93.4	93.6	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.9	93.9	93.9
GE 800	93.4	93.5	93.9	94.1	94.3	94.3	94.4	94.4	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5
GE 700	93.7	93.8	94.2	94.5	94.7	94.7	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
GE 600	93.9	94.2	94.6	94.9	95.2	95.2	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.5
GE 500	94.3	94.5	95.1	95.5	95.8	95.8	96.0	96.1	96.1	96.1	96.1	96.2	96.2	96.2	96.2	96.2
GE 400	94.8	95.0	95.7	96.2	96.6	96.7	97.0	97.1	97.1	97.1	97.3	97.3	97.4	97.4	97.5	97.5
GE 300	95.0	95.2	95.9	96.5	97.0	97.1	97.5	97.6	97.6	98.0	98.1	98.1	98.2	98.2	98.3	98.4
GE 200	95.1	95.4	96.1	96.7	97.3	97.3	97.8	97.9	98.0	98.4	98.6	98.8	99.1	99.1	99.3	99.4
GE 100	95.1	95.4	96.1	96.7	97.3	97.4	97.8	98.0	98.0	98.5	98.8	99.0	99.4	99.5	99.8	99.9
GE 000	95.1	95.4	96.1	96.7	97.3	97.4	97.8	98.0	98.0	98.5	98.8	99.0	99.4	99.5	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 7200

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: OCT HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
GE 20000	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
GE 18000	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
GE 16000	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
GE 14000	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
GE 12000	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
GE 10000	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
GE 9000	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
GE 8000	80.2	80.2	80.2	80.2	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
GE 7000	81.6	81.6	81.6	81.6	81.6	81.6	81.7	81.7	81.7	81.7	81.8	81.8	81.8	81.8	81.8	81.8
GE 6000	82.7	82.7	82.7	82.7	82.7	82.7	82.8	82.8	82.8	82.8	82.9	82.9	82.9	82.9	82.9	82.9
GE 5000	84.3	84.3	84.3	84.3	84.3	84.3	84.4	84.4	84.4	84.4	84.5	84.5	84.5	84.5	84.5	84.5
GE 4500	85.9	85.9	85.9	85.9	85.9	85.9	86.0	86.0	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.1
GE 4000	88.3	88.3	88.3	88.3	88.3	88.3	88.4	88.4	88.4	88.4	88.5	88.5	88.5	88.5	88.5	88.5
GE 3500	89.4	89.4	89.4	89.4	89.4	89.4	89.5	89.5	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6
GE 3000	91.6	91.6	91.6	91.6	91.6	91.6	91.7	91.7	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8
GE 2500	92.0	92.0	92.0	92.0	92.0	92.0	92.2	92.2	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3
GE 2000	92.6	92.6	92.6	92.6	92.6	92.6	92.7	92.7	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8
GE 1800	92.7	92.7	92.7	92.7	92.7	92.7	92.8	92.8	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9
GE 1500	93.9	93.9	93.9	93.9	93.9	93.9	94.0	94.0	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1
GE 1200	94.1	94.1	94.1	94.1	94.1	94.1	94.2	94.2	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3
GE 1000	94.3	94.3	94.3	94.3	94.4	94.4	94.5	94.5	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6
GE 900	94.3	94.3	94.3	94.3	94.4	94.4	94.5	94.5	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6
GE 800	94.5	94.5	94.5	94.5	94.6	94.6	94.7	94.7	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8
GE 700	95.5	95.5	95.5	95.5	95.6	95.6	95.7	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8
GE 600	95.5	95.5	95.5	95.5	95.6	95.6	95.7	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8
GE 500	96.0	96.0	96.5	96.5	96.6	96.6	96.7	96.8	96.8	96.9	97.0	97.0	97.0	97.0	97.1	97.1
GE 400	96.1	96.1	96.6	96.6	96.7	96.7	96.8	96.9	96.9	97.0	97.1	97.1	97.1	97.1	97.2	97.2
GE 300	96.5	96.6	97.4	97.6	97.8	97.8	98.0	98.1	98.1	98.2	98.3	98.3	98.3	98.3	98.4	98.4
GE 200	97.0	97.4	98.3	98.5	98.7	98.7	98.8	98.9	98.9	99.2	99.4	99.4	99.4	99.4	99.5	99.7
GE 100	97.0	97.4	98.5	98.5	98.7	98.7	98.8	98.9	98.9	99.2	99.7	99.7	99.7	99.7	99.8	100.0
GE 000	97.0	97.4	98.3	98.5	98.7	98.7	98.8	98.9	98.9	99.2	99.7	99.7	99.7	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

D - 2 - 82

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: OCT HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	67.0	67.0	67.0	67.0	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.3	67.3	67.3	67.3
GE 20000	70.5	70.5	70.5	70.5	70.6	70.6	70.8	70.8	70.8	70.8	70.8	70.8	70.9	70.9	70.9	70.9
GE 18000	70.6	70.6	70.6	70.6	70.8	70.8	70.9	70.9	70.9	70.9	70.9	70.9	71.0	71.0	71.0	71.0
GE 16000	70.6	70.6	70.6	70.6	70.8	70.8	70.9	70.9	70.9	70.9	70.9	70.9	71.0	71.0	71.0	71.0
GE 14000	71.0	71.0	71.0	71.0	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.3	71.3	71.3	71.3
GE 12000	71.8	71.8	71.8	71.8	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.2	72.2	72.2	72.2
GE 10000	76.1	76.1	76.1	76.1	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.5	76.5	76.5	76.5
GE 9000	76.6	76.6	76.6	76.6	76.7	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.9	76.9	76.9	76.9
GE 8000	79.0	79.0	79.0	79.1	79.2	79.2	79.4	79.4	79.4	79.4	79.4	79.4	79.5	79.5	79.5	79.5
GE 7000	80.0	80.0	80.0	80.1	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.4	80.4	80.4	80.4
GE 6000	81.4	81.4	81.4	81.5	81.6	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.8	81.8	81.8	81.8
GE 5000	82.8	82.8	82.8	82.9	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.2	83.2	83.2	83.2
GE 4500	84.4	84.4	84.4	84.5	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.8	84.8	84.8	84.8
GE 4000	85.8	85.8	85.8	85.9	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.2	86.2	86.2	86.2
GE 3500	87.1	87.1	87.2	87.3	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.6	87.6	87.6	87.6
GE 3000	89.9	89.9	90.0	90.1	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.4	90.4	90.4	90.4
GE 2500	90.6	90.6	90.8	90.9	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.2	91.2	91.2	91.2
GE 2000	91.7	91.7	91.8	91.9	92.0	92.0	92.2	92.2	92.2	92.2	92.2	92.2	92.3	92.3	92.3	92.3
GE 1800	92.0	92.0	92.2	92.3	92.4	92.4	92.5	92.5	92.5	92.6	92.6	92.6	92.7	92.7	92.7	92.7
GE 1500	92.6	92.6	92.7	92.8	92.9	92.9	93.0	93.0	93.0	93.1	93.1	93.1	93.2	93.2	93.2	93.2
GE 1200	93.0	93.0	93.1	93.2	93.3	93.3	93.4	93.4	93.4	93.5	93.5	93.5	93.7	93.7	93.7	93.7
GE 1000	93.4	93.4	93.5	93.7	93.8	93.8	93.9	93.9	93.9	94.0	94.0	94.0	94.1	94.1	94.1	94.1
GE 900	93.7	93.7	93.8	93.9	94.0	94.0	94.1	94.1	94.1	94.2	94.2	94.2	94.3	94.3	94.3	94.3
GE 800	94.0	94.0	94.1	94.2	94.3	94.3	94.4	94.4	94.4	94.5	94.5	94.5	94.6	94.6	94.6	94.6
GE 700	94.1	94.1	94.2	94.3	94.4	94.4	94.5	94.5	94.5	94.6	94.6	94.6	94.7	94.7	94.7	94.7
GE 600	94.6	94.6	94.7	94.8	94.9	94.9	95.1	95.1	95.1	95.2	95.2	95.2	95.3	95.3	95.3	95.3
GE 500	95.2	95.2	95.3	95.4	95.6	95.6	96.0	96.0	96.0	96.1	96.2	96.2	96.3	96.3	96.3	96.3
GE 400	95.7	95.7	95.8	95.9	96.1	96.1	96.6	96.6	96.6	96.7	96.8	96.8	96.9	96.9	96.9	96.9
GE 300	96.1	96.1	96.2	96.3	96.6	96.6	97.0	97.0	97.0	97.1	97.3	97.3	97.4	97.4	97.4	97.4
GE 200	96.5	96.5	96.7	96.9	97.1	97.1	97.6	97.6	97.6	98.4	98.6	98.6	98.9	98.9	99.6	99.6
GE 100	96.5	96.5	96.7	96.9	97.1	97.1	97.6	97.6	97.6	98.4	98.9	98.9	99.4	99.4	100.0	100.0
GE 000	96.5	96.5	96.7	96.9	97.1	97.1	97.6	97.6	97.6	98.4	98.9	98.9	99.4	99.4	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: OCT HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	58.9	59.0	59.0	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
GE 20000	63.4	63.5	63.5	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
GE 18000	63.9	64.0	64.0	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
GE 16000	63.9	64.0	64.0	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
GE 14000	64.6	64.7	64.7	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
GE 12000	67.3	67.4	67.4	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
GE 10000	73.1	73.2	73.2	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
GE 9000	73.3	73.4	73.4	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
GE 8000	76.7	76.8	76.8	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
GE 7000	78.1	78.2	78.2	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
GE 6000	80.1	80.2	80.2	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
GE 5000	82.0	82.2	82.2	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
GE 4500	83.2	83.3	83.3	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
GE 4000	85.6	85.7	85.7	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
GE 3500	86.3	86.5	86.5	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
GE 3000	87.7	88.0	88.0	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
GE 2500	88.4	88.6	88.6	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
GE 2000	90.0	90.2	90.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
GE 1800	90.2	90.4	90.4	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
GE 1500	90.8	91.1	91.1	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
GE 1200	91.8	92.2	92.2	92.5	92.7	92.7	92.7	92.7	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8
GE 1000	92.4	92.7	92.8	93.2	93.5	93.5	93.5	93.5	93.5	93.5	93.8	93.9	93.9	93.9	93.9	93.9
GE 900	92.5	92.8	92.9	93.3	93.7	93.7	93.7	93.7	93.7	93.7	93.9	94.0	94.0	94.0	94.0	94.0
GE 800	93.0	93.3	93.4	94.0	94.3	94.3	94.3	94.3	94.3	94.3	94.5	94.6	94.6	94.6	94.6	94.6
GE 700	93.0	93.3	93.4	94.1	94.4	94.4	94.4	94.4	94.4	94.4	94.6	94.7	94.7	94.7	94.7	94.7
GE 600	93.1	93.4	93.5	94.2	94.5	94.5	94.6	94.7	94.8	95.1	95.2	95.2	95.2	95.2	95.2	95.2
GE 500	93.3	93.9	94.0	94.7	95.1	95.1	95.2	95.3	95.4	95.6	95.7	95.7	95.7	95.7	95.7	95.7
GE 400	93.9	94.5	94.8	95.6	96.0	96.0	96.1	96.2	96.3	96.6	96.7	96.7	96.7	96.7	96.7	96.7
GE 300	94.5	95.2	95.6	96.3	97.0	97.0	97.2	97.3	97.4	97.7	98.0	98.0	98.0	98.0	98.0	98.0
GE 200	94.7	95.4	95.8	96.6	97.3	97.3	97.6	97.7	97.8	98.2	98.4	98.4	98.8	98.8	98.9	99.2
GE 100	94.7	95.4	95.8	96.6	97.3	97.3	97.6	97.7	97.8	98.2	98.6	98.6	99.0	99.1	99.5	99.8
GE 000	94.7	95.4	95.8	96.6	97.3	97.3	97.6	97.7	97.8	98.2	98.6	98.6	99.0	99.1	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: OCT HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.9	54.9	54.9	54.9
GE 20000	64.5	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.7	64.7	64.7	64.7
GE 18000	64.9	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.2	65.2	65.2	65.2
GE 16000	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.6	65.6	65.6	65.6
GE 14000	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.3	66.3	66.3	66.3
GE 12000	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.2	68.2	68.2	68.2
GE 10000	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	74.0	74.0	74.0	74.0
GE 9000	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.8	74.8	74.8	74.8
GE 8000	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.6	78.6	78.6	78.6
GE 7000	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.9	79.9	79.9	79.9
GE 6000	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.8	80.8	80.8	80.8
GE 5000	81.1	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.4	81.4	81.4	81.4
GE 4500	81.9	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.3	82.3	82.3	82.3
GE 4000	85.2	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.6	85.6	85.6	85.6
GE 3500	86.1	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.6	86.6	86.6	86.6
GE 3000	88.3	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.7	88.7	88.7	88.7
GE 2500	88.5	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.9	88.9	88.9	88.9
GE 2000	89.6	89.8	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.1	90.1	90.1	90.1
GE 1800	89.9	90.1	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.4	90.4	90.4	90.4
GE 1500	91.3	91.5	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.8	91.8	91.8	91.8
GE 1200	92.0	92.3	92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.7	92.7	92.7	92.7
GE 1000	92.7	93.0	93.2	93.4	93.4	93.4	93.5	93.5	93.5	93.7	93.7	93.7	93.8	93.8	93.8	93.8
GE 900	93.2	93.5	93.8	94.0	94.0	94.0	94.1	94.1	94.1	94.2	94.2	94.2	94.4	94.4	94.4	94.4
GE 800	93.2	93.5	93.8	94.2	94.3	94.3	94.4	94.4	94.4	94.5	94.5	94.5	94.7	94.7	94.7	94.7
GE 700	93.8	94.1	94.3	94.7	94.8	94.8	94.9	94.9	94.9	95.1	95.2	95.2	95.4	95.4	95.4	95.4
GE 600	94.0	94.3	94.6	95.1	95.2	95.2	95.3	95.4	95.4	95.5	95.6	95.6	95.8	95.8	95.8	95.8
GE 500	94.7	95.1	95.6	96.1	96.5	96.5	96.6	96.7	96.7	96.8	96.9	96.9	97.2	97.2	97.3	97.3
GE 400	95.5	95.9	96.5	97.0	97.4	97.4	97.5	97.6	97.6	97.7	97.8	97.8	98.2	98.2	98.3	98.3
GE 300	95.8	96.2	96.8	97.5	98.0	98.0	98.1	98.2	98.2	98.3	98.4	98.4	98.7	98.7	98.8	98.8
GE 200	95.9	96.3	96.9	97.6	98.1	98.1	98.2	98.3	98.3	98.4	98.5	98.5	99.0	99.0	99.1	99.1
GE 100	95.9	96.3	96.9	97.6	98.1	98.1	98.2	98.3	98.3	98.5	98.6	98.6	99.1	99.1	99.8	99.9
GE 000	95.9	96.3	96.9	97.6	98.1	98.1	98.2	98.3	98.3	98.5	98.6	98.6	99.1	99.1	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: OCT HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
GE 20000	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
GE 18000	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
GE 16000	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 14000	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE 12000	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
GE 10000	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
GE 9000	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
GE 8000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
GE 7000	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
GE 6000	79.4	79.4	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
GE 5000	80.8	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
GE 4500	81.6	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
GE 4000	85.6	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
GE 3500	87.3	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
GE 3000	89.6	89.7	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 2500	90.4	90.5	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
GE 2000	91.9	92.0	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE 1800	92.3	92.4	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
GE 1500	93.2	93.3	93.7	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
GE 1200	94.3	94.4	94.7	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 1000	94.5	94.6	94.9	95.5	95.5	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 900	95.2	95.3	95.6	96.1	96.1	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 800	95.2	95.4	95.7	96.3	96.3	96.3	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 700	95.6	95.8	96.1	96.8	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 600	95.9	96.1	96.6	97.2	97.3	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 500	96.0	96.2	96.9	97.5	97.8	97.8	97.8	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 400	96.1	96.6	97.3	98.0	98.6	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 300	96.5	96.7	97.4	98.4	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 200	96.5	96.7	97.4	98.5	99.2	99.2	99.2	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7
GE 100	96.5	96.7	97.4	98.5	99.2	99.2	99.2	99.6	99.6	99.6	99.6	99.7	99.7	99.7	100.0	100.0
GE 000	96.5	96.7	97.4	98.5	99.2	99.2	99.2	99.6	99.6	99.6	99.6	99.7	99.7	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: OCT HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
GE 20000	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
GE 18000	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
GE 16000	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
GE 14000	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
GE 12000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GE 10000	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
GE 9000	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
GE 8000	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
GE 7000	80.4	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
GE 6000	81.4	81.4	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
GE 5000	83.4	83.4	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
GE 4500	83.8	83.8	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
GE 4000	87.1	87.1	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.5	87.5	87.5
GE 3500	88.4	88.4	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.8	88.8	88.8
GE 3000	90.4	90.6	90.9	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.3	91.3	91.3
GE 2500	91.8	92.0	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.8	92.8	92.8
GE 2000	92.8	93.0	93.2	94.0	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.2	94.2	94.2
GE 1800	93.2	93.4	93.7	94.4	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.6	94.6	94.6
GE 1500	93.9	94.1	94.3	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.4	95.4	95.4
GE 1200	94.2	94.4	94.7	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.9	95.9	95.9
GE 1000	94.6	94.8	95.2	96.1	96.1	96.1	96.2	96.5	96.5	96.5	96.5	96.5	96.5	96.6	96.6	96.6
GE 900	94.7	94.9	95.3	96.2	96.2	96.2	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.7	96.7	96.7
GE 800	94.8	95.1	95.4	96.3	96.5	96.5	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.9	96.9	96.9
GE 700	94.9	95.2	95.5	96.6	96.9	96.9	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.3	97.3	97.3
GE 600	95.4	95.6	95.9	97.0	97.3	97.3	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.7	97.7	97.7
GE 500	95.6	95.8	96.3	97.6	98.0	98.0	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.5	98.5	98.5
GE 400	95.7	96.1	96.7	98.0	98.5	98.5	98.6	98.9	98.9	99.0	99.1	99.1	99.1	99.2	99.2	99.2
GE 300	95.7	96.1	96.8	98.1	98.6	98.6	98.7	99.0	99.0	99.2	99.5	99.5	99.5	99.6	99.6	99.6
GE 200	95.7	96.1	96.8	98.1	98.7	98.7	98.8	99.1	99.1	99.4	99.6	99.6	99.6	99.7	99.7	99.7
GE 100	95.7	96.1	96.8	98.1	98.7	98.7	98.8	99.1	99.1	99.4	99.7	99.7	99.7	99.8	99.8	100.0
GE 000	95.7	96.1	96.8	98.1	98.7	98.7	98.8	99.1	99.1	99.4	99.7	99.7	99.7	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: OCT HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
GE 20000	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
GE 18000	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
GE 16000	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
GE 14000	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
GE 12000	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
GE 10000	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
GE 9000	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
GE 8000	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
GE 7000	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
GE 6000	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
GE 5000	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GE 4500	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
GE 4000	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 3500	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
GE 3000	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE 2500	93.1	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
GE 2000	93.5	93.5	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
GE 1800	93.9	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE 1500	94.3	94.4	94.4	94.5	94.6	94.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
GE 1200	94.8	94.9	94.9	95.1	95.2	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 1000	95.8	95.9	95.9	96.0	96.1	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 900	96.1	96.3	96.3	96.5	96.7	96.7	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 800	96.1	96.3	96.3	96.5	96.7	96.7	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 700	96.1	96.3	96.3	96.5	96.7	96.7	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 600	96.3	96.6	96.6	96.7	96.9	96.9	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 500	96.7	96.9	96.9	97.0	97.2	97.2	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 400	97.1	97.7	97.7	97.8	98.1	98.1	98.5	98.5	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7
GE 300	97.6	98.1	98.1	98.2	98.5	98.5	98.9	99.0	99.1	99.1	99.4	99.4	99.4	99.4	99.4	99.4
GE 200	98.0	98.4	98.4	98.5	98.8	98.8	99.2	99.4	99.5	99.5	99.7	99.7	99.7	99.8	99.8	99.8
GE 100	98.0	98.4	98.4	98.5	98.8	98.8	99.2	99.4	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0
GE 000	98.0	98.4	98.4	98.5	98.8	98.8	99.2	99.4	99.5	99.5	99.7	99.8	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 910

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: OCT HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
GE 20000	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
GE 18000	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
GE 16000	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
GE 14000	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
GE 12000	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
GE 10000	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
GE 9000	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
GE 8000	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
GE 7000	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
GE 6000	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
GE 5000	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
GE 4500	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 4000	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
GE 3500	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 3000	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
GE 2500	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 2000	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
GE 1800	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
GE 1500	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 1200	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE 1000	95.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 900	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 800	95.4	95.8	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 700	95.7	96.1	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 600	95.8	96.2	96.2	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 500	96.6	97.0	97.0	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 400	96.8	97.2	97.2	97.5	97.5	97.5	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 300	97.1	97.6	97.6	98.1	98.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.5
GE 200	98.0	98.6	98.6	99.1	99.1	99.1	99.5	99.5	99.5	99.5	99.6	99.6	99.7	99.7	99.7	99.9
GE 100	98.0	98.6	98.6	99.1	99.1	99.1	99.5	99.5	99.5	99.5	99.6	99.6	99.8	99.8	99.8	100.0
GE 000	98.0	98.6	98.6	99.1	99.1	99.1	99.5	99.5	99.5	99.5	99.6	99.6	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: OCT HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	60.5	60.5	60.5	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
GE 20000	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
GE 18000	68.5	68.5	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
GE 16000	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.8	68.8	68.8	68.8
GE 14000	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
GE 12000	70.5	70.5	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
GE 10000	75.5	75.5	75.5	75.5	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
GE 9000	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.2	76.2	76.2	76.2
GE 8000	79.3	79.3	79.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
GE 7000	80.5	80.5	80.5	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 6000	81.7	81.7	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.9	81.9	81.9	81.9
GE 5000	83.3	83.4	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.6	83.6	83.6	83.6
GE 4500	84.3	84.4	84.4	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.6	84.6	84.6	84.6
GE 4000	87.0	87.0	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GE 3500	88.1	88.1	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.4	88.4	88.4
GE 3000	90.2	90.3	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.6	90.6	90.6	90.6
GE 2500	90.9	91.0	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3
GE 2000	91.9	92.0	92.1	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
GE 1800	92.2	92.3	92.4	92.6	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
GE 1500	92.9	93.1	93.2	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.6	93.6	93.6	93.6
GE 1200	93.6	93.7	93.9	94.1	94.2	94.2	94.2	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3
GE 1000	94.1	94.3	94.4	94.7	94.8	94.8	94.9	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0
GE 900	94.4	94.6	94.7	95.0	95.1	95.1	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.4	95.4	95.4
GE 800	94.5	94.7	94.9	95.3	95.4	95.4	95.5	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 700	94.8	95.1	95.2	95.6	95.8	95.8	95.8	95.9	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0
GE 600	95.1	95.3	95.5	95.9	96.0	96.0	96.1	96.2	96.2	96.3	96.3	96.3	96.4	96.4	96.4	96.4
GE 500	95.5	95.8	96.0	96.5	96.7	96.7	96.9	97.0	97.0	97.1	97.2	97.2	97.2	97.2	97.3	97.3
GE 400	95.9	96.2	96.6	97.0	97.4	97.4	97.6	97.7	97.7	97.8	97.9	97.9	97.9	97.9	98.0	98.0
GE 300	96.2	96.6	97.0	97.6	97.9	97.9	98.2	98.3	98.3	98.4	98.6	98.6	98.6	98.6	98.7	98.7
GE 200	96.5	96.9	97.4	98.0	98.4	98.4	98.6	98.8	98.8	99.0	99.2	99.2	99.4	99.4	99.5	99.6
GE 100	96.5	96.9	97.4	98.0	98.4	98.4	98.6	98.8	98.8	99.0	99.3	99.3	99.5	99.6	99.8	100.0
GE 000	96.5	96.9	97.4	98.0	98.4	98.4	98.6	98.8	98.8	99.0	99.3	99.3	99.5	99.6	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: NOV HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	61.4	61.7	61.7	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.9	62.1	62.2
GE 20000	68.1	68.3	68.3	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.6	68.8	68.9
GE 18000	68.2	68.4	68.4	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.7	68.9	69.0
GE 16000	68.4	68.7	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.9	69.1	69.2
GE 14000	69.2	69.4	69.4	69.4	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.7	69.9	70.0
GE 12000	71.0	71.2	71.2	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.4	71.7	71.8
GE 10000	74.1	74.3	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.6	74.8	74.9
GE 9000	74.8	75.0	75.0	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.2	75.4	75.6
GE 8000	77.7	77.9	77.9	77.9	78.0	78.0	78.0	78.0	78.0	78.1	78.1	78.1	78.1	78.2	78.4	78.6
GE 7000	78.4	78.7	78.7	78.7	78.8	78.8	78.8	78.8	78.8	78.9	78.9	78.9	78.9	79.0	79.2	79.3
GE 6000	80.1	80.3	80.3	80.3	80.4	80.4	80.4	80.4	80.4	80.6	80.6	80.6	80.6	80.7	80.9	81.0
GE 5000	82.3	82.6	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.8	82.8	82.8	82.8	82.9	83.1	83.2
GE 4500	82.6	82.8	82.8	82.8	82.9	82.9	82.9	82.9	82.9	83.0	83.0	83.0	83.0	83.1	83.3	83.4
GE 4000	84.1	84.3	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.6	84.6	84.6	84.6	84.7	84.9	85.0
GE 3500	84.4	84.7	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.9	84.9	84.9	84.9	85.0	85.2	85.3
GE 3000	85.4	85.7	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.9	85.9	85.9	85.9	86.0	86.2	86.3
GE 2500	86.3	86.6	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.8	86.8	86.8	86.8	86.9	87.1	87.2
GE 2000	86.8	87.0	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.2	87.2	87.2	87.2	87.3	87.6	87.7
GE 1800	86.9	87.1	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.3	87.3	87.3	87.3	87.4	87.7	87.8
GE 1500	87.8	88.0	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.2	88.2	88.2	88.2	88.3	88.6	88.7
GE 1200	88.3	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.9	89.1	89.2
GE 1000	89.0	89.2	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.4	89.6	89.6	89.7	89.8	90.0	90.1
GE 900	89.1	89.3	89.3	89.3	89.6	89.6	89.6	89.6	89.6	89.7	89.8	89.8	89.9	90.0	90.2	90.3
GE 800	89.3	89.6	89.6	89.6	89.8	89.8	89.8	89.8	89.8	90.0	90.1	90.1	90.2	90.3	90.6	90.7
GE 700	89.6	89.8	90.1	90.2	90.4	90.4	90.4	90.4	90.7	90.9	91.0	91.1	91.2	91.3	91.6	91.7
GE 600	90.1	90.3	90.7	90.8	91.0	91.0	91.0	91.0	91.3	91.6	91.7	91.8	91.9	92.0	92.2	92.3
GE 500	91.1	91.3	91.9	92.0	92.2	92.2	92.3	92.3	92.8	93.1	93.4	93.6	93.8	93.9	94.1	94.2
GE 400	91.9	92.1	93.0	93.1	93.3	93.3	93.4	93.4	93.9	94.2	94.6	94.7	94.9	95.0	95.2	95.3
GE 300	92.7	92.9	93.9	94.0	94.3	94.3	94.4	94.4	94.9	95.2	95.6	95.7	96.0	96.1	96.3	96.4
GE 200	92.8	93.0	94.0	94.1	94.4	94.4	94.7	94.8	95.2	96.0	96.3	97.0	97.3	97.8	98.0	98.1
GE 100	92.9	93.1	94.1	94.2	94.6	94.7	94.9	95.0	95.4	96.3	96.9	97.6	97.9	98.3	99.2	99.3
GE 000	92.9	93.1	94.1	94.2	94.6	94.7	94.9	95.0	95.4	96.3	96.9	97.6	97.9	98.4	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: NOV HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	59.1	59.1	59.2	59.2	59.4	59.4	59.4	59.4	59.6	59.7	59.8	59.8	59.8	59.8	59.9	59.9
GE 20000	66.4	66.4	66.6	66.6	66.8	66.8	66.8	66.8	66.9	67.0	67.1	67.1	67.1	67.1	67.2	67.2
GE 18000	66.8	66.8	66.9	66.9	67.1	67.1	67.1	67.1	67.2	67.3	67.4	67.4	67.4	67.4	67.6	67.6
GE 16000	67.1	67.1	67.2	67.2	67.4	67.4	67.4	67.4	67.6	67.7	67.8	67.8	67.8	67.8	67.9	67.9
GE 14000	67.8	67.8	67.9	67.9	68.1	68.1	68.1	68.1	68.2	68.3	68.4	68.4	68.4	68.4	68.6	68.6
GE 12000	70.1	70.1	70.2	70.2	70.4	70.4	70.4	70.4	70.6	70.7	70.8	70.8	70.8	70.8	70.9	70.9
GE 10000	74.0	74.0	74.1	74.1	74.3	74.3	74.3	74.3	74.4	74.6	74.7	74.7	74.7	74.7	74.8	74.8
GE 9000	74.2	74.2	74.3	74.3	74.6	74.6	74.6	74.6	74.7	74.8	74.9	74.9	74.9	74.9	75.0	75.0
GE 8000	76.0	76.0	76.1	76.1	76.3	76.3	76.3	76.3	76.4	76.6	76.7	76.7	76.7	76.7	76.8	76.8
GE 7000	77.0	77.0	77.1	77.1	77.3	77.3	77.3	77.3	77.4	77.6	77.7	77.7	77.7	77.7	77.8	77.8
GE 6000	79.0	79.0	79.1	79.1	79.3	79.3	79.3	79.3	79.4	79.6	79.7	79.7	79.7	79.7	79.8	79.8
GE 5000	80.9	80.9	81.0	81.1	81.3	81.3	81.3	81.3	81.4	81.6	81.7	81.7	81.7	81.7	81.8	81.8
GE 4500	81.4	81.4	81.6	81.7	81.9	81.9	81.9	81.9	82.0	82.1	82.2	82.2	82.2	82.2	82.3	82.3
GE 4000	83.2	83.2	83.3	83.7	83.9	83.9	83.9	83.9	84.0	84.1	84.2	84.2	84.2	84.2	84.3	84.3
GE 3500	83.8	83.8	83.9	84.2	84.4	84.4	84.4	84.4	84.6	84.7	84.8	84.8	84.8	84.8	84.9	84.9
GE 3000	85.8	85.9	86.0	86.3	86.6	86.6	86.6	86.6	86.7	86.8	86.9	86.9	86.9	86.9	87.0	87.0
GE 2500	86.3	86.4	86.6	86.9	87.1	87.1	87.1	87.1	87.2	87.3	87.4	87.4	87.4	87.4	87.6	87.6
GE 2000	86.3	86.4	86.6	86.9	87.1	87.1	87.1	87.1	87.2	87.3	87.4	87.4	87.4	87.4	87.6	87.6
GE 1800	86.6	86.7	86.8	87.1	87.3	87.3	87.3	87.3	87.4	87.6	87.7	87.7	87.7	87.7	87.8	87.8
GE 1500	87.2	87.3	87.4	87.8	88.0	88.0	88.0	88.0	88.1	88.2	88.3	88.3	88.3	88.3	88.4	88.4
GE 1200	87.8	87.9	88.0	88.3	88.6	88.6	88.6	88.6	88.7	88.8	88.9	88.9	88.9	88.9	89.0	89.0
GE 1000	88.6	88.7	88.8	89.1	89.3	89.3	89.3	89.3	89.4	89.6	89.8	89.8	89.8	89.8	89.9	89.9
GE 900	89.0	89.1	89.2	89.6	89.8	89.8	89.8	89.8	89.9	90.0	90.2	90.2	90.2	90.2	90.3	90.3
GE 800	89.6	89.7	89.8	90.1	90.3	90.3	90.3	90.3	90.4	90.6	90.8	90.8	90.8	90.8	90.9	90.9
GE 700	89.8	89.9	90.0	90.3	90.6	90.6	90.6	90.6	90.7	91.0	91.2	91.2	91.2	91.2	91.3	91.3
GE 600	90.0	90.1	90.2	90.6	90.8	90.8	90.8	90.8	91.2	91.6	91.8	91.8	91.8	91.8	91.9	91.9
GE 500	90.3	90.4	90.7	91.2	91.4	91.4	91.7	91.7	92.1	92.7	92.9	92.9	92.9	92.9	93.0	93.0
GE 400	90.9	91.1	91.4	92.2	92.4	92.4	92.7	92.7	93.1	93.7	93.9	93.9	93.9	93.9	94.0	94.0
GE 300	91.3	91.8	92.2	93.1	93.4	93.4	94.0	94.2	94.9	95.6	95.8	95.8	95.9	95.9	96.0	96.0
GE 200	91.4	92.0	92.4	93.3	94.1	94.1	94.7	95.1	95.8	96.8	97.0	97.6	97.7	97.7	97.9	98.1
GE 100	91.7	92.2	92.7	93.6	94.4	94.4	95.0	95.4	96.1	97.2	97.6	98.1	98.3	98.3	98.9	99.2
GE 000	91.7	92.2	92.7	93.6	94.4	94.4	95.0	95.4	96.1	97.2	97.6	98.1	98.3	98.3	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: NOV HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.8	51.8
GE 20000	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.9	61.9
GE 18000	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.3	62.3
GE 16000	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.4	62.4
GE 14000	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	63.0	63.0
GE 12000	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.2	64.2
GE 10000	70.1	70.1	70.1	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.3	70.3
GE 9000	70.8	70.8	70.8	70.8	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.0	71.0
GE 8000	75.9	75.9	75.9	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.1	76.1
GE 7000	77.4	77.4	77.4	77.4	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.7	77.7
GE 6000	79.0	79.0	79.0	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.3	79.3
GE 5000	81.4	81.4	81.4	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.8	81.8
GE 4500	82.1	82.1	82.2	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.6	82.6
GE 4000	83.4	83.4	83.6	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.9	83.9
GE 3500	83.7	83.7	83.8	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.2	84.2
GE 3000	85.6	85.6	85.8	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.2	86.2
GE 2500	85.9	85.9	86.1	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.6	86.6
GE 2000	86.3	86.3	86.6	86.8	86.9	86.9	86.9	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.1	87.1
GE 1800	86.4	86.4	86.7	86.9	87.0	87.0	87.0	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.2	87.2
GE 1500	87.2	87.3	87.7	88.0	88.1	88.1	88.1	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.3	88.3
GE 1200	88.2	88.3	88.7	89.1	89.2	89.2	89.2	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.4	89.4
GE 1000	88.7	88.8	89.1	89.6	89.7	89.7	89.7	89.7	89.7	89.8	89.9	89.9	89.9	89.9	90.0	90.0
GE 900	89.1	89.2	89.6	90.0	90.1	90.1	90.1	90.1	90.1	90.2	90.3	90.3	90.3	90.4	90.6	90.6
GE 800	89.3	89.4	89.3	90.1	90.4	90.4	90.6	90.6	90.6	90.9	91.0	91.0	91.1	91.1	91.2	91.2
GE 700	89.4	89.7	90.1	90.7	90.8	90.8	90.9	91.0	91.0	91.3	91.4	91.4	91.6	91.6	91.7	91.7
GE 600	89.7	89.9	90.4	91.3	91.6	91.6	91.7	91.8	91.8	92.1	92.3	92.3	92.6	92.6	92.7	92.7
GE 500	90.1	90.4	91.0	92.2	92.4	92.4	92.6	92.7	92.7	93.0	93.2	93.2	93.4	93.4	93.6	93.6
GE 400	90.1	90.4	91.0	92.3	92.6	92.6	92.8	93.0	93.0	93.7	93.9	93.9	94.2	94.2	94.3	94.3
GE 300	90.2	90.6	91.1	92.4	92.7	92.7	93.0	93.2	93.2	94.1	94.4	94.4	94.8	94.9	95.0	95.0
GE 200	90.4	91.0	91.6	93.0	93.4	93.4	93.9	94.2	94.2	95.3	95.7	95.7	96.7	97.0	97.6	97.7
GE 100	90.4	91.0	91.7	93.1	93.7	93.7	94.2	94.6	94.6	95.8	96.1	96.4	97.6	98.0	98.7	99.1
GE 000	90.4	91.0	91.7	93.1	93.7	93.7	94.2	94.6	94.6	95.8	96.1	96.4	97.8	98.2	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: NOV HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
GE 20000	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
GE 18000	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 16000	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
GE 14000	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
GE 12000	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
GE 10000	72.1	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
GE 9000	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
GE 8000	76.4	76.4	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
GE 7000	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
GE 6000	79.4	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
GE 5000	81.3	81.3	81.6	81.6	81.6	81.6	81.6	81.7	81.7	81.8	81.8	81.9	82.0	82.0	82.0	82.0
GE 4500	81.4	81.4	81.7	81.7	81.7	81.7	81.7	81.8	81.8	81.9	81.9	82.0	82.1	82.1	82.1	82.1
GE 4000	82.1	82.1	82.4	82.4	82.4	82.4	82.4	82.6	82.6	82.8	82.8	82.9	83.0	83.0	83.0	83.0
GE 3500	82.8	82.8	83.1	83.1	83.1	83.1	83.1	83.2	83.2	83.4	83.4	83.6	83.7	83.7	83.7	83.7
GE 3000	84.1	84.1	84.4	84.4	84.4	84.4	84.4	84.6	84.6	84.8	84.8	84.9	85.0	85.0	85.0	85.0
GE 2500	84.7	84.7	85.0	85.1	85.2	85.2	85.2	85.3	85.3	85.6	85.6	85.7	85.8	85.8	85.8	85.8
GE 2000	85.6	85.6	85.9	86.1	86.3	86.3	86.4	86.6	86.6	86.8	86.8	86.9	87.0	87.0	87.0	87.0
GE 1800	85.6	85.6	85.9	86.1	86.3	86.3	86.4	86.6	86.6	86.8	86.8	86.9	87.0	87.0	87.0	87.0
GE 1500	86.7	86.7	87.1	87.3	87.7	87.7	87.8	87.9	87.9	88.1	88.1	88.2	88.3	88.3	88.3	88.3
GE 1200	87.2	87.2	87.7	88.2	88.6	88.6	88.7	88.8	88.8	89.0	89.0	89.2	89.3	89.3	89.3	89.3
GE 1000	88.0	88.0	88.6	89.1	89.4	89.4	89.6	89.8	89.8	90.0	90.0	90.2	90.3	90.3	90.3	90.3
GE 900	88.3	88.3	88.9	89.4	89.9	89.9	90.0	90.2	90.2	90.4	90.4	90.8	90.9	90.9	90.9	90.9
GE 800	88.8	88.8	89.3	89.9	90.3	90.4	90.6	90.8	90.9	91.1	91.1	91.4	91.6	91.6	91.6	91.6
GE 700	88.8	88.8	89.3	90.1	90.6	90.7	90.8	91.0	91.1	91.6	91.7	92.0	92.2	92.2	92.2	92.2
GE 600	89.1	89.1	89.8	90.7	91.2	91.3	91.7	91.9	92.0	92.4	92.6	92.9	93.3	93.3	93.3	93.3
GE 500	89.6	89.6	90.2	91.1	91.7	91.8	92.3	92.9	93.0	93.7	93.9	94.2	94.7	94.7	94.8	94.8
GE 400	89.9	89.9	90.6	91.4	92.7	92.7	93.4	93.6	94.4	95.0	95.6	96.1	96.1	96.2	96.2	96.2
GE 300	90.0	90.0	90.7	91.7	92.7	92.7	93.4	94.1	94.1	95.4	96.0	96.6	97.3	97.3	97.4	97.4
GE 200	90.0	90.0	90.7	91.7	92.7	92.7	93.4	94.1	94.2	95.8	96.4	97.3	98.4	98.9	99.2	99.2
GE 100	90.0	90.0	90.7	91.7	92.7	92.8	93.4	94.1	94.2	95.8	96.4	97.6	98.8	99.2	99.6	99.6
GE 000	90.0	90.0	90.7	91.7	92.7	92.8	93.4	94.1	94.2	95.8	96.4	97.6	98.8	99.2	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 300

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: NOV HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
GE 20000	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
GE 18000	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
GE 16000	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
GE 14000	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
GE 12000	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
GE 10000	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.9	72.9	72.9	72.9	72.9	72.9	72.9
GE 9000	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.3	73.3	73.3	73.3	73.3	73.3	73.3
GE 8000	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.7	77.7	77.7	77.7	77.7	77.7	77.7
GE 7000	79.2	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.6	79.6	79.6	79.6	79.6	79.6	79.6
GE 6000	79.7	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	80.1	80.1	80.1	80.1	80.1	80.1	80.1
GE 5000	80.9	81.0	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.4	81.4	81.4	81.4	81.4	81.4	81.4
GE 4500	81.4	81.6	81.7	81.7	81.8	81.8	81.8	81.8	81.8	82.0	82.0	82.0	82.0	82.0	82.0	82.0
GE 4000	83.2	83.3	83.6	83.6	83.7	83.8	83.8	83.8	83.8	84.0	84.0	84.0	84.0	84.0	84.0	84.0
GE 3500	84.1	84.2	84.4	84.4	84.6	84.7	84.7	84.7	84.7	84.9	84.9	84.9	84.9	84.9	84.9	84.9
GE 3000	84.9	85.1	85.6	85.6	85.7	85.8	85.8	85.8	85.8	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 2500	86.0	86.2	86.8	87.1	87.3	87.4	87.6	87.6	87.6	87.9	87.9	87.9	87.9	87.9	87.9	87.9
GE 2000	87.0	87.2	88.0	88.4	88.7	88.8	88.9	88.9	88.9	89.2	89.2	89.2	89.2	89.2	89.2	89.2
GE 1800	87.2	87.4	88.2	88.7	88.9	89.0	89.1	89.1	89.1	89.4	89.4	89.4	89.4	89.4	89.4	89.4
GE 1500	87.8	88.0	88.8	89.2	89.5	89.7	89.8	89.8	89.8	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 1200	88.6	88.8	89.7	90.2	90.9	91.0	91.1	91.1	91.1	91.4	91.4	91.4	91.4	91.4	91.4	91.4
GE 1000	88.8	89.1	90.0	90.7	91.3	91.4	91.6	91.7	91.7	92.2	92.2	92.2	92.2	92.2	92.2	92.2
GE 900	89.1	89.4	90.3	91.0	91.7	91.8	91.9	92.0	92.0	92.6	92.7	92.7	92.7	92.7	92.7	92.7
GE 800	89.2	89.6	90.4	91.1	91.8	91.9	92.0	92.1	92.1	92.7	92.8	92.8	92.8	92.8	92.8	92.8
GE 700	89.7	90.1	91.1	91.9	92.6	92.7	92.9	93.0	93.0	93.7	93.8	93.8	93.8	93.8	93.8	93.8
GE 600	90.4	90.9	91.9	92.8	93.4	93.6	93.8	93.9	93.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0
GE 500	90.9	91.1	92.3	93.3	94.0	94.1	94.4	94.8	94.8	96.0	96.2	96.2	96.7	96.7	96.7	96.7
GE 400	91.1	91.7	92.7	93.8	94.7	94.8	95.2	95.6	95.6	97.1	97.6	97.6	98.1	98.1	98.1	98.1
GE 300	91.1	91.8	92.9	94.2	95.2	95.3	95.8	96.1	96.1	97.7	98.2	98.2	98.9	98.9	98.9	98.9
GE 200	91.1	91.8	92.9	94.7	95.2	95.3	95.8	96.1	96.1	97.7	98.2	98.3	99.2	99.3	99.4	99.6
GE 100	91.1	91.8	92.9	94.7	95.2	95.3	95.8	96.1	96.1	97.8	98.3	98.4	99.6	99.7	99.9	100.0
GE 000	91.1	91.8	92.9	94.2	95.2	95.3	95.8	96.1	96.1	97.8	98.3	98.4	99.6	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 900



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: NOV HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
GE 20000	63.8	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 18000	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
GE 16000	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
GE 14000	65.9	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
GE 12000	67.7	67.7	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
GE 10000	72.6	72.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
GE 9000	73.3	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
GE 8000	77.8	77.8	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
GE 7000	79.4	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
GE 6000	81.0	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
GE 5000	82.3	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
GE 4500	82.7	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
GE 4000	84.3	84.4	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.7
GE 3500	85.3	85.4	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.7	85.7	85.7	85.7	85.7	85.7
GE 3000	87.0	87.2	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.6	87.6	87.6	87.6	87.6	87.6
GE 2500	88.2	88.6	89.1	89.2	89.3	89.2	89.3	89.3	89.3	89.4	89.6	89.6	89.6	89.6	89.6	89.6
GE 2000	89.3	89.8	90.4	90.6	90.7	90.7	90.7	90.7	90.7	90.8	90.9	90.9	90.9	90.9	90.9	90.9
GE 1800	89.3	89.8	90.4	90.6	90.8	90.8	90.8	90.8	90.8	90.9	91.0	91.0	91.0	91.0	91.0	91.0
GE 1500	89.8	90.2	90.9	91.0	91.2	91.2	91.3	91.3	91.3	91.4	91.6	91.6	91.7	91.7	91.7	91.7
GE 1200	90.2	90.7	91.3	91.4	91.9	91.9	92.1	92.1	92.1	92.2	92.3	92.3	92.4	92.4	92.4	92.4
GE 1000	90.4	91.0	91.7	91.9	92.3	92.3	92.6	92.8	92.8	92.9	93.0	93.0	93.1	93.1	93.1	93.1
GE 900	90.7	91.2	91.9	92.1	92.6	92.6	92.9	93.1	93.1	93.2	93.3	93.3	93.4	93.4	93.4	93.4
GE 800	90.9	91.4	92.1	92.3	92.8	92.8	93.1	93.3	93.3	93.6	93.7	93.7	93.8	93.8	93.8	93.8
GE 700	91.4	92.2	92.9	93.1	93.8	93.8	94.1	94.3	94.4	94.8	94.9	94.9	95.0	95.0	95.0	95.0
GE 600	91.8	92.7	93.3	93.7	94.3	94.3	94.7	94.9	95.0	95.4	95.6	95.6	95.7	95.7	95.7	95.7
GE 500	92.2	93.3	94.0	94.3	95.0	95.0	95.3	95.6	95.8	96.3	96.6	96.6	96.7	96.7	96.7	96.7
GE 400	92.6	93.7	94.3	94.7	95.3	95.3	96.0	96.2	96.4	97.0	97.3	97.3	97.7	97.7	97.7	97.7
GE 300	92.6	93.7	94.4	94.8	95.6	95.6	96.3	96.6	96.8	97.3	97.8	97.8	98.3	98.3	98.3	98.3
GE 200	92.6	93.7	94.4	94.8	95.6	95.7	96.4	96.8	97.0	97.6	98.0	98.0	99.1	99.2	99.4	99.8
GE 100	92.6	93.7	94.4	94.8	95.6	95.7	96.4	96.8	97.0	97.6	98.0	98.0	99.1	99.2	99.4	100.0
GE 000	92.6	93.7	94.4	94.8	95.6	95.7	96.4	96.8	97.0	97.6	98.0	98.0	99.1	99.2	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: NOV HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.9	55.9	55.9	55.9
GE 20000	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	65.0	65.0	65.0	65.0
GE 18000	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.1	65.1	65.1	65.1
GE 16000	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.3	65.3	65.3	65.3
GE 14000	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.9	66.9	66.9	66.9
GE 12000	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.8	68.8	68.8	68.8
GE 10000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.1	71.1	71.1	71.1
GE 9000	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.4	71.4	71.4	71.4
GE 8000	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.4	75.4	75.4	75.4
GE 7000	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.2	77.2	77.2	77.2
GE 6000	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.7	78.7	78.7	78.7
GE 5000	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.2	80.2	80.2	80.2
GE 4500	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.4	80.4	80.4	80.4
GE 4000	82.4	82.6	82.6	82.6	82.6	82.6	82.6	82.7	82.7	82.7	82.8	82.8	82.9	82.9	82.9	82.9
GE 3500	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.1	84.1	84.1	84.2	84.2	84.3	84.3	84.3	84.3
GE 3000	85.3	85.6	85.6	85.6	85.6	85.6	85.7	85.9	85.9	85.9	86.0	86.0	86.1	86.1	86.1	86.1
GE 2500	86.1	86.3	86.6	86.7	86.7	86.7	86.8	87.0	87.0	87.0	87.1	87.1	87.2	87.2	87.2	87.2
GE 2000	87.2	87.7	88.0	88.1	88.1	88.1	88.2	88.4	88.4	88.4	88.6	88.6	88.7	88.7	88.7	88.7
GE 1800	87.4	87.9	88.2	88.3	88.3	88.3	88.4	88.7	88.7	88.7	88.8	88.8	88.9	88.9	88.9	88.9
GE 1500	88.0	88.4	88.8	88.9	88.9	88.9	89.1	89.4	89.4	89.4	89.7	89.7	89.8	89.8	89.8	89.8
GE 1200	88.0	88.4	88.8	88.9	88.9	88.9	89.1	89.7	89.7	89.7	89.9	89.9	90.0	90.0	90.0	90.0
GE 1000	89.2	89.8	90.2	90.3	90.3	90.3	90.6	91.1	91.1	91.1	91.4	91.4	91.6	91.6	91.6	91.6
GE 900	89.3	89.9	90.3	90.4	90.4	90.4	90.7	91.2	91.2	91.2	91.6	91.7	91.8	91.8	91.8	91.8
GE 800	89.7	90.6	91.1	91.2	91.2	91.2	91.4	92.0	92.0	92.0	92.4	92.6	92.7	92.7	92.7	92.7
GE 700	90.7	91.9	92.4	92.6	92.6	92.6	92.8	93.3	93.3	93.3	93.9	94.1	94.2	94.2	94.2	94.2
GE 600	90.8	92.0	92.6	92.7	92.7	92.7	92.9	93.4	93.7	93.7	94.2	94.4	94.7	94.7	94.7	94.7
GE 500	91.8	93.0	93.6	93.7	93.7	93.7	94.0	94.6	94.8	95.0	95.6	96.0	96.3	96.3	96.3	96.3
GE 400	91.8	93.2	93.9	94.0	94.0	94.0	94.4	95.1	95.3	95.6	96.1	96.7	97.1	97.1	97.1	97.1
GE 300	91.9	93.3	94.0	94.1	94.1	94.1	94.6	95.2	95.4	95.9	96.4	97.0	97.7	97.7	97.7	97.7
GE 200	91.9	93.3	94.0	94.1	94.1	94.1	94.6	95.4	95.7	96.3	96.9	97.4	98.6	98.8	98.9	98.9
GE 100	91.9	93.3	94.0	94.1	94.1	94.1	94.6	95.4	95.7	96.7	97.2	97.9	99.0	99.3	100.0	100.0
GE 000	91.9	93.3	94.0	94.1	94.1	94.1	94.6	95.4	95.7	96.7	97.2	97.9	99.0	99.3	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: NOV HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	57.8	57.8	57.8	57.8	57.9	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.1	58.2	58.2
GE 20000	65.4	65.4	65.4	65.4	65.6	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.8	65.9	65.9
GE 18000	65.6	65.6	65.6	65.6	65.7	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.9	66.0	66.0
GE 16000	65.7	65.7	65.7	65.7	65.8	65.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	66.0	66.1	66.1
GE 14000	66.4	66.4	66.4	66.4	66.6	66.6	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.8	66.9	66.9
GE 12000	68.0	68.0	68.0	68.0	68.1	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.3	68.4	68.4
GE 10000	71.0	71.0	71.0	71.0	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.3	71.4	71.4
GE 9000	71.3	71.3	71.3	71.3	71.4	71.4	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.7	71.8	71.8
GE 8000	74.7	74.7	74.7	74.7	74.8	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	75.0	75.1	75.1
GE 7000	75.3	75.3	75.3	75.3	75.4	75.4	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.7	75.8	75.8
GE 6000	76.7	76.7	76.7	76.7	76.8	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	77.0	77.1	77.1
GE 5000	80.0	80.0	80.0	80.0	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.3	80.4	80.4
GE 4500	80.1	80.1	80.1	80.1	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.4	80.6	80.6
GE 4000	81.8	81.8	81.8	81.8	81.9	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.1	82.2	82.2
GE 3500	82.6	82.6	82.6	82.6	82.7	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.9	83.0	83.0
GE 3000	84.0	84.0	84.0	84.0	84.2	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.4	84.6	84.6
GE 2500	84.4	84.4	84.4	84.4	84.7	84.7	84.8	84.8	84.8	84.9	84.9	84.9	84.9	85.0	85.1	85.1
GE 2000	85.8	85.9	85.9	85.9	86.1	86.1	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.4	86.6	86.6
GE 1800	86.3	86.4	86.4	86.4	86.7	86.7	86.8	86.8	86.8	86.9	86.9	86.9	86.9	87.0	87.1	87.1
GE 1500	87.1	87.2	87.2	87.2	87.4	87.4	87.6	87.6	87.6	87.7	87.7	87.7	87.7	87.8	87.9	87.9
GE 1200	88.0	88.1	88.1	88.1	88.3	88.3	88.4	88.6	88.6	88.7	88.7	88.7	88.7	88.8	88.9	88.9
GE 1000	88.1	88.2	88.2	88.2	88.6	88.6	88.7	88.8	88.8	89.0	89.0	89.0	89.1	89.2	89.3	89.3
GE 900	88.3	88.4	88.4	88.4	88.8	88.8	88.9	89.0	89.0	89.6	89.6	89.7	89.8	89.9	90.0	90.0
GE 800	89.0	89.3	89.3	89.3	89.7	89.7	89.8	89.9	89.9	90.4	90.4	90.6	90.7	90.8	90.9	90.9
GE 700	89.3	89.8	89.8	89.8	90.1	90.1	90.2	90.3	90.7	91.2	91.2	91.3	91.6	91.7	91.8	91.8
GE 600	89.7	90.1	90.1	90.1	90.4	90.4	90.6	90.7	91.0	91.6	91.6	91.7	91.9	92.0	92.1	92.1
GE 500	90.7	91.3	91.4	91.4	91.8	91.8	91.9	92.1	92.4	93.4	93.7	93.9	94.2	94.3	94.4	94.4
GE 400	91.6	92.2	92.7	92.7	93.1	93.1	93.3	93.7	94.0	95.0	95.2	95.8	96.1	96.2	96.3	96.3
GE 300	91.9	92.7	93.3	93.4	93.9	93.9	94.1	94.4	94.9	96.0	96.2	96.8	97.2	97.4	97.7	97.7
GE 200	91.9	92.7	93.3	93.4	93.9	93.9	94.2	94.7	95.1	96.2	96.4	97.3	98.0	98.2	98.4	98.6
GE 100	92.0	92.8	93.6	93.7	94.2	94.2	94.6	95.0	95.4	96.7	97.0	98.0	98.7	99.0	99.3	99.7
GE 000	92.0	92.8	93.6	93.7	94.2	94.2	94.6	95.0	95.4	96.7	97.0	98.0	98.7	99.1	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: NOV HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	54.3	54.3	54.3	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.5	54.5	54.5	54.5	54.6	54.6
GE 20000	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.6	64.6	64.6	64.6	64.6	64.6	64.7	64.7
GE 18000	64.8	64.9	64.9	64.9	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.1	65.1	65.1
GE 16000	65.1	65.1	65.1	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.3	65.3	65.3	65.4
GE 14000	66.0	66.0	66.0	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.2	66.2	66.3
GE 12000	67.8	67.8	67.9	67.9	67.9	67.9	67.9	67.9	67.9	68.0	68.0	68.0	68.0	68.0	68.1	68.1
GE 10000	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.5	72.5	72.5
GE 9000	72.6	72.7	72.7	72.7	72.8	72.8	72.8	72.8	72.8	72.8	72.9	72.9	72.9	72.9	73.0	73.0
GE 8000	76.4	76.4	76.5	76.5	76.5	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.7	76.7	76.8	76.8
GE 7000	77.8	77.8	77.9	77.9	77.9	77.9	77.9	77.9	78.0	78.0	78.0	78.0	78.0	78.1	78.1	78.2
GE 6000	79.2	79.2	79.3	79.3	79.4	79.4	79.4	79.4	79.4	79.4	79.5	79.5	79.5	79.5	79.6	79.6
GE 5000	81.2	81.2	81.3	81.3	81.4	81.4	81.4	81.4	81.4	81.5	81.5	81.5	81.6	81.6	81.7	81.7
GE 4500	81.5	81.6	81.6	81.7	81.8	81.8	81.8	81.8	81.8	81.9	81.9	81.9	81.9	81.9	82.0	82.0
GE 4000	83.1	83.2	83.3	83.3	83.4	83.4	83.4	83.5	83.5	83.6	83.6	83.6	83.6	83.7	83.7	83.8
GE 3500	83.8	83.9	84.0	84.1	84.2	84.2	84.2	84.2	84.2	84.3	84.3	84.4	84.4	84.4	84.5	84.5
GE 3000	85.3	85.4	85.6	85.6	85.7	85.7	85.8	85.8	85.8	85.9	85.9	86.0	86.0	86.0	86.1	86.1
GE 2500	86.0	86.1	86.4	86.5	86.7	86.7	86.7	86.8	86.8	86.9	87.0	87.0	87.0	87.0	87.1	87.1
GE 2000	86.8	87.0	87.3	87.5	87.6	87.6	87.7	87.7	87.8	87.9	87.9	87.9	88.0	88.0	88.1	88.1
GE 1800	87.0	87.2	87.5	87.7	87.8	87.8	87.9	87.9	88.1	88.1	88.1	88.1	88.2	88.2	88.3	88.3
GE 1500	87.7	87.9	88.2	88.4	88.6	88.6	88.7	88.8	88.8	88.9	89.0	89.0	89.0	89.1	89.1	89.2
GE 1200	88.3	88.5	88.8	89.1	89.4	89.4	89.5	89.6	89.6	89.7	89.8	89.8	89.9	89.9	90.0	90.0
GE 1000	88.8	89.1	89.5	89.8	90.0	90.1	90.2	90.3	90.3	90.5	90.6	90.6	90.7	90.7	90.8	90.8
GE 900	89.1	89.4	89.8	90.0	90.3	90.4	90.5	90.6	90.6	90.9	91.0	91.1	91.1	91.2	91.2	91.3
GE 800	89.5	89.8	90.2	90.5	90.8	90.8	90.9	91.1	91.1	91.4	91.5	91.6	91.7	91.7	91.8	91.8
GE 700	89.8	90.3	90.7	91.1	91.4	91.4	91.6	91.8	91.9	92.2	92.4	92.5	92.6	92.6	92.7	92.7
GE 600	90.2	90.6	91.1	91.6	91.9	92.0	92.1	92.3	92.5	92.9	93.1	93.2	93.3	93.4	93.4	93.5
GE 500	90.8	91.3	91.9	92.4	92.8	92.8	93.1	93.3	93.5	94.2	94.4	94.6	94.8	94.9	94.9	95.0
GE 400	91.2	91.8	92.4	93.0	93.5	93.5	93.8	94.1	94.4	95.1	95.4	95.7	96.0	96.0	96.1	96.1
GE 300	91.5	92.1	92.8	93.5	94.0	94.0	94.5	94.8	95.0	95.9	96.3	96.5	97.0	97.1	97.2	97.2
GE 200	91.5	92.2	92.9	93.6	94.2	94.2	94.7	95.2	95.4	96.5	96.9	97.3	98.1	98.4	98.6	98.7
GE 100	91.6	92.2	93.0	93.7	94.3	94.4	94.9	95.3	95.6	96.7	97.2	97.8	98.6	98.9	99.4	99.6
GE 000	91.6	92.2	93.0	93.7	94.3	94.4	94.9	95.3	95.6	96.7	97.2	97.8	98.6	98.9	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 7200

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: DEC HOURS: 00-02

CEILING	VISIBILITY IN STATUTE MILES															
IN FEET	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.9	59.9	59.9	59.9	59.9	59.9
GE 20000	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4
GE 18000	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.6	64.6	64.6	64.6	64.6	64.6
GE 16000	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.7
GE 14000	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	65.1	65.1	65.1	65.1	65.1	65.1
GE 12000	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.7	65.7	65.7	65.7	65.7	65.7
GE 10000	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.9	68.9	68.9	68.9	68.9	68.9
GE 9000	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.7	69.7	69.7	69.7	69.7	69.7
GE 8000	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.1	73.1	73.1	73.1	73.1	73.1
GE 7000	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.0
GE 6000	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4
GE 5000	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.6	77.6	77.6	77.6	77.6	77.6
GE 4500	78.0	78.1	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.3
GE 4000	80.2	80.4	80.4	80.5	80.5	80.5	80.6	80.6	80.6	80.6	80.8	80.8	80.8	80.8	80.8	80.8
GE 3500	81.2	81.4	81.4	81.5	81.5	81.5	81.6	81.6	81.6	81.6	81.7	81.7	81.7	81.7	81.7	81.7
GE 3000	82.8	83.0	83.0	83.1	83.1	83.1	83.2	83.2	83.2	83.2	83.3	83.3	83.5	83.5	83.5	83.5
GE 2500	83.3	83.5	83.5	83.7	83.7	83.7	83.8	83.8	83.8	83.8	83.9	83.9	84.1	84.1	84.1	84.1
GE 2000	84.4	84.7	84.8	85.4	85.4	85.4	85.6	85.6	85.6	85.6	85.7	85.7	85.9	85.9	85.9	85.9
GE 1800	84.8	85.2	85.3	85.9	85.9	85.9	86.1	86.1	86.1	86.1	86.2	86.2	86.5	86.5	86.5	86.5
GE 1500	85.9	86.2	86.5	87.1	87.1	87.1	87.3	87.3	87.3	87.3	87.4	87.4	87.6	87.6	87.6	87.6
GE 1200	86.9	87.2	87.6	88.3	88.3	88.3	88.8	88.8	88.8	88.8	88.9	88.9	89.1	89.1	89.1	89.1
GE 1000	87.2	87.5	88.0	88.6	88.7	88.7	89.4	89.6	89.6	89.6	90.0	90.0	90.2	90.2	90.2	90.2
GE 900	87.4	87.7	88.4	89.0	89.1	89.1	89.8	90.1	90.1	90.2	90.6	90.6	90.9	90.9	90.9	90.9
GE 800	87.7	88.1	88.8	89.5	89.6	89.6	90.2	90.5	90.5	90.6	91.1	91.1	91.3	91.3	91.3	91.3
GE 700	88.2	88.5	89.2	89.9	90.0	90.0	90.6	91.1	91.1	91.3	91.8	91.8	92.0	92.0	92.0	92.0
GE 600	88.6	88.9	89.7	90.3	90.4	90.4	91.1	91.5	91.5	91.7	92.3	92.4	92.6	92.6	92.6	92.6
GE 500	89.0	89.4	90.1	90.8	91.0	91.0	92.2	92.9	92.9	94.3	94.9	95.1	95.3	95.3	95.3	95.3
GE 400	89.4	89.7	90.4	91.1	91.3	91.3	92.5	93.2	93.2	95.2	95.8	95.9	96.1	96.1	96.1	96.1
GE 300	89.9	90.2	91.3	91.9	92.3	92.3	93.4	94.3	94.3	96.2	97.0	97.2	97.4	97.4	97.4	97.4
GE 200	89.9	90.2	91.3	91.9	92.3	92.3	93.4	94.4	94.4	96.9	97.7	98.3	98.5	98.5	98.7	98.7
GE 100	89.9	90.2	91.3	92.0	92.4	92.4	93.5	94.5	94.5	97.1	98.2	98.9	99.1	99.1	99.8	99.8
GE 000	89.9	90.2	91.3	92.0	92.4	92.4	93.5	94.5	94.5	97.1	98.2	98.9	99.1	99.1	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 910

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: DEC HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.5
GE 20000	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.4
GE 18000	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.4
GE 16000	67.2	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.5
GE 14000	67.3	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.6
GE 12000	68.0	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.3
GE 10000	70.8	70.8	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.1
GE 9000	71.0	71.0	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.3
GE 8000	74.1	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.4
GE 7000	74.8	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	75.2
GE 6000	76.9	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.2
GE 5000	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.9
GE 4500	78.8	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	79.1
GE 4000	80.9	80.9	81.1	81.2	81.3	81.3	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.7
GE 3500	81.5	81.5	81.7	81.8	81.9	81.9	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.4
GE 3000	83.2	83.2	83.4	83.5	83.8	83.8	84.2	84.2	84.2	84.2	84.4	84.4	84.4	84.4	84.4	84.6
GE 2500	84.7	84.7	84.9	85.1	85.3	85.3	85.7	85.7	85.7	85.7	85.9	85.9	85.9	85.9	85.9	86.1
GE 2000	86.1	86.3	86.7	86.9	87.1	87.1	87.5	87.5	87.5	87.5	87.7	87.7	87.7	87.7	87.7	88.0
GE 1800	86.6	86.8	87.1	87.3	87.5	87.5	88.0	88.0	88.0	88.0	88.2	88.2	88.2	88.2	88.2	88.4
GE 1500	87.2	87.5	87.8	88.2	88.4	88.4	88.8	88.8	88.8	88.8	89.0	89.0	89.0	89.0	89.0	89.2
GE 1200	87.6	88.0	88.3	88.6	88.8	88.8	89.2	89.2	89.2	89.2	89.6	89.6	89.6	89.6	89.6	89.8
GE 1000	87.7	88.1	88.4	88.8	89.0	89.0	89.6	89.6	89.6	89.7	90.2	90.2	90.2	90.2	90.2	90.4
GE 900	88.0	88.3	88.6	89.1	89.4	89.4	89.9	89.9	89.9	90.0	90.5	90.5	90.5	90.5	90.5	90.6
GE 800	88.4	88.7	89.0	89.6	89.8	89.8	90.3	90.3	90.3	90.4	91.0	91.0	91.0	91.0	91.0	91.2
GE 700	88.9	89.2	89.6	90.1	90.3	90.3	90.9	90.9	90.9	91.0	91.5	91.5	91.5	91.5	91.5	91.7
GE 600	89.4	89.7	90.2	90.8	91.0	91.0	91.6	91.6	91.6	92.3	92.8	92.8	92.8	92.8	92.8	93.0
GE 500	89.8	90.1	90.6	91.5	91.8	91.8	92.6	93.0	93.1	94.1	95.4	95.4	95.4	95.4	95.4	95.6
GE 400	91.0	91.3	91.8	92.7	93.1	93.1	94.1	94.5	94.6	95.8	97.1	97.1	97.1	97.1	97.1	97.3
GE 300	91.3	91.6	92.2	93.1	93.5	93.5	94.5	94.9	95.1	96.8	98.3	98.5	98.5	98.5	98.5	98.7
GE 200	91.3	91.6	92.2	93.1	93.5	93.5	94.5	94.9	95.1	97.0	98.5	98.8	98.9	98.9	99.0	99.2
GE 100	91.3	91.6	92.2	93.3	93.8	93.8	94.7	95.2	95.3	97.2	98.7	99.0	99.4	99.6	99.8	100.0
GE 000	91.3	91.6	92.2	93.3	93.8	93.8	94.7	95.2	95.3	97.2	98.7	99.0	99.4	99.6	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: DEC HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	56.5	56.8	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.1	57.1	57.1	57.1	57.1	57.2
GE 20000	62.6	62.9	63.1	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.5
GE 18000	62.6	62.9	63.1	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.5
GE 16000	63.0	63.3	63.5	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.9	63.9	63.9	63.9	63.9	64.0
GE 14000	63.2	63.5	63.8	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.1	64.1	64.1	64.1	64.1	64.2
GE 12000	63.8	64.1	64.3	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.6	64.6	64.6	64.6	64.6	64.7
GE 10000	67.4	67.8	68.1	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.4	68.4	68.4	68.4	68.4	68.5
GE 9000	67.7	68.2	68.4	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.8
GE 8000	71.7	72.3	72.5	72.6	72.7	72.7	72.8	72.8	72.8	72.8	72.9	72.9	72.9	72.9	72.9	73.0
GE 7000	72.8	73.3	73.5	73.7	73.8	73.8	73.9	73.9	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.1
GE 6000	73.8	74.3	74.5	74.7	74.8	74.8	74.9	74.9	74.9	74.9	75.1	75.1	75.1	75.1	75.1	75.2
GE 5000	76.8	77.3	77.5	77.7	77.8	77.8	78.0	78.0	78.1	78.1	78.2	78.2	78.2	78.2	78.2	78.3
GE 4500	77.1	77.6	77.8	78.1	78.3	78.3	78.4	78.4	78.5	78.5	78.6	78.6	78.6	78.6	78.6	78.7
GE 4000	79.4	79.9	80.2	80.5	80.8	80.8	80.9	80.9	81.0	81.0	81.1	81.2	81.2	81.2	81.2	81.3
GE 3500	80.3	80.9	81.2	81.5	81.7	81.7	81.8	81.8	81.9	82.0	82.2	82.3	82.3	82.3	82.3	82.4
GE 3000	81.9	82.5	82.8	83.1	83.4	83.4	83.8	83.8	83.9	84.1	84.4	84.5	84.5	84.5	84.5	84.6
GE 2500	83.7	84.2	84.5	84.8	85.2	85.2	85.5	85.5	85.6	85.9	86.2	86.3	86.3	86.3	86.3	86.5
GE 2000	84.7	85.3	85.8	86.2	86.7	86.7	87.0	87.2	87.3	87.6	88.0	88.1	88.1	88.1	88.1	88.2
GE 1800	85.1	85.6	86.1	86.6	87.0	87.0	87.3	87.5	87.6	88.0	88.3	88.4	88.4	88.4	88.4	88.5
GE 1500	85.7	86.2	86.8	87.4	87.8	87.8	88.2	88.4	88.5	88.9	89.4	89.5	89.5	89.5	89.5	89.6
GE 1200	86.3	86.9	87.4	88.1	88.5	88.5	88.8	89.1	89.2	89.7	90.1	90.2	90.2	90.2	90.2	90.3
GE 1000	87.0	87.5	88.2	88.8	89.2	89.2	89.6	89.9	90.0	90.5	91.0	91.2	91.2	91.2	91.2	91.3
GE 900	87.5	88.1	88.7	89.4	89.9	89.9	90.2	90.5	90.6	91.2	91.9	92.2	92.2	92.2	92.2	92.3
GE 800	88.1	88.6	89.2	89.9	90.4	90.4	90.8	91.2	91.3	91.8	92.6	92.8	92.8	92.8	92.8	92.9
GE 700	88.3	88.8	89.5	90.2	90.8	90.8	91.2	91.6	91.7	92.3	93.0	93.2	93.3	93.3	93.3	93.4
GE 600	88.7	89.4	90.0	90.8	91.4	91.4	91.8	92.3	92.4	92.9	93.7	93.9	94.0	94.0	94.0	94.1
GE 500	89.4	90.0	90.6	91.4	92.0	92.0	92.6	93.0	93.1	93.7	95.2	95.5	95.6	95.6	95.6	95.7
GE 400	89.8	90.8	91.4	92.3	93.0	93.0	93.7	94.3	94.4	94.9	96.6	96.9	97.3	97.3	97.3	97.4
GE 300	89.9	91.1	91.8	92.8	93.5	93.5	94.5	95.2	95.3	96.1	98.0	98.4	98.8	98.8	98.8	98.9
GE 200	89.9	91.1	91.8	92.8	93.5	93.5	94.7	95.6	95.7	96.6	98.5	98.9	99.8	99.8	99.8	100.0
GE 100	89.9	91.1	91.8	92.8	93.5	93.5	94.7	95.6	95.7	96.6	98.5	98.9	99.8	99.8	99.8	100.0
GE 000	89.9	91.1	91.8	92.8	93.5	93.5	94.7	95.6	95.7	96.6	98.5	98.9	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 910

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: DEC HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	53.1	53.1	53.1	53.2	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.4	53.4	53.4	53.4
GE 20000	63.9	63.9	63.9	64.0	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.3	64.3	64.3	64.3
GE 18000	64.4	64.4	64.4	64.5	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.8	64.8	64.8	64.8
GE 16000	64.4	64.4	64.4	64.5	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.8	64.8	64.8	64.8
GE 14000	65.3	65.3	65.3	65.5	65.6	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.9	65.9	65.9	65.9
GE 12000	66.6	66.6	66.6	66.8	66.9	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.2	67.2	67.2	67.2
GE 10000	71.2	71.2	71.2	71.4	71.5	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.8	71.8	71.8	71.8
GE 9000	72.3	72.3	72.3	72.5	72.7	72.8	72.9	72.9	72.9	72.9	72.9	72.9	73.0	73.0	73.0	73.0
GE 8000	75.3	75.3	75.4	75.6	75.8	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.1	76.1	76.1	76.1
GE 7000	77.2	77.2	77.3	77.5	77.7	77.8	78.1	78.1	78.1	78.1	78.1	78.1	78.2	78.2	78.2	78.2
GE 6000	78.1	78.1	78.2	78.4	78.7	78.8	79.0	79.0	79.0	79.0	79.0	79.0	79.1	79.1	79.1	79.1
GE 5000	80.3	80.3	80.4	80.6	81.0	81.1	81.3	81.3	81.3	81.3	81.3	81.3	81.4	81.4	81.4	81.4
GE 4500	80.9	80.9	81.0	81.2	81.5	81.6	81.8	81.8	81.8	81.8	81.8	81.8	81.9	81.9	81.9	81.9
GE 4000	81.9	81.9	82.2	82.5	82.8	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.2	83.2	83.2	83.2
GE 3500	82.7	82.7	83.0	83.3	83.7	83.8	84.1	84.3	84.3	84.3	84.3	84.3	84.4	84.4	84.4	84.4
GE 3000	83.9	83.9	84.2	84.5	84.9	85.1	85.4	85.6	85.6	85.6	85.7	85.8	85.9	85.9	85.9	85.9
GE 2500	84.6	84.6	84.9	85.3	85.7	85.8	86.1	86.3	86.3	86.3	86.5	86.6	86.7	86.7	86.7	86.7
GE 2000	85.3	85.4	85.9	86.3	87.3	87.4	88.0	88.2	88.2	88.4	88.6	88.7	88.8	88.8	88.8	88.8
GE 1800	85.3	85.4	85.9	86.3	87.3	87.4	88.0	88.2	88.2	88.4	88.6	88.7	88.8	88.8	88.8	88.8
GE 1500	85.7	85.8	86.3	86.9	87.8	88.0	88.5	88.8	88.8	89.1	89.4	89.8	89.9	89.9	89.9	89.9
GE 1200	86.1	86.2	86.8	87.3	88.4	88.5	89.1	89.5	89.5	89.8	90.0	90.4	90.5	90.5	90.5	90.5
GE 1000	86.5	86.6	87.1	87.6	88.7	88.8	89.6	89.9	89.9	90.2	90.5	91.0	91.1	91.1	91.1	91.1
GE 900	86.5	86.6	87.1	87.6	88.8	89.0	89.8	90.1	90.2	90.6	91.1	91.5	91.6	91.6	91.6	91.6
GE 800	87.1	87.3	87.8	88.4	89.6	89.8	90.5	90.9	91.0	91.6	92.0	92.5	92.8	92.8	92.8	92.8
GE 700	87.1	87.3	88.0	88.5	90.0	90.2	91.5	91.9	92.0	92.8	93.5	94.3	94.7	94.7	94.7	94.7
GE 600	87.2	87.6	88.3	88.9	90.4	90.6	91.9	92.4	92.5	93.2	94.1	94.8	95.3	95.3	95.3	95.3
GE 500	87.4	88.1	88.7	89.5	91.1	91.3	92.7	93.2	93.3	94.4	95.9	96.8	97.4	97.4	97.4	97.4
GE 400	87.5	88.2	89.0	89.8	91.5	91.8	93.2	93.9	94.2	95.7	97.2	98.1	98.7	98.7	98.7	98.7
GE 300	87.5	88.2	89.0	90.0	91.7	92.0	93.5	94.2	94.5	96.0	97.5	98.4	99.2	99.5	99.5	99.5
GE 200	87.5	88.2	89.0	90.0	91.7	92.0	93.5	94.3	94.6	96.1	97.6	98.5	99.4	99.6	99.9	99.9
GE 100	87.5	88.2	89.0	90.0	91.7	92.0	93.7	94.4	94.7	96.2	97.7	98.6	99.5	99.7	100.0	100.0
GE 000	87.5	88.2	89.0	90.0	91.7	92.0	93.7	94.4	94.7	96.2	97.7	98.6	99.5	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: DEC HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	53.4	53.7	53.7	53.8	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.2	54.2	54.2	54.2
GE 20000	66.7	67.0	67.0	67.1	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.5	67.5	67.5	67.5
GE 18000	67.3	67.6	67.6	67.7	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.2	68.2	68.2	68.2
GE 16000	67.3	67.6	67.6	67.7	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.2	68.2	68.2	68.2
GE 14000	67.6	68.1	68.1	68.2	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.6	68.6	68.6	68.6
GE 12000	69.8	70.2	70.2	70.3	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.8	70.8	70.8	70.8
GE 10000	73.7	74.1	74.1	74.2	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.7	74.7	74.7	74.7
GE 9000	74.5	74.9	74.9	75.1	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.6	75.6	75.6	75.6
GE 8000	77.7	78.2	78.2	78.3	78.7	78.7	78.7	78.7	78.7	79.0	79.0	79.0	79.1	79.1	79.1	79.1
GE 7000	79.0	79.5	79.6	79.7	80.1	80.1	80.1	80.1	80.1	80.4	80.4	80.4	80.5	80.5	80.5	80.5
GE 6000	80.0	80.5	80.6	80.8	81.2	81.2	81.2	81.2	81.2	81.5	81.5	81.5	81.6	81.6	81.6	81.6
GE 5000	82.3	82.8	82.9	83.1	83.5	83.5	83.5	83.5	83.5	83.9	84.0	84.0	84.1	84.1	84.1	84.1
GE 4500	82.4	82.9	83.0	83.2	83.7	83.7	83.7	83.7	83.7	84.0	84.1	84.1	84.2	84.2	84.2	84.2
GE 4000	84.3	84.8	84.9	85.2	85.6	85.6	85.6	85.6	85.6	85.9	86.0	86.1	86.2	86.2	86.2	86.2
GE 3500	85.2	85.7	85.8	86.0	86.5	86.5	86.6	86.6	86.6	86.9	87.0	87.1	87.2	87.2	87.2	87.2
GE 3000	86.0	86.6	86.8	87.0	87.4	87.4	87.6	87.6	87.6	88.0	88.1	88.2	88.3	88.3	88.3	88.3
GE 2500	86.5	87.0	87.3	87.6	88.2	88.2	88.4	88.4	88.4	88.7	88.8	88.9	89.0	89.0	89.0	89.0
GE 2000	87.3	88.3	88.7	89.4	90.0	90.0	90.5	90.5	90.5	90.9	91.1	91.2	91.3	91.3	91.3	91.3
GE 1800	87.3	88.3	88.7	89.4	90.0	90.0	90.5	90.5	90.5	90.9	91.1	91.2	91.3	91.3	91.3	91.3
GE 1500	87.7	88.7	89.1	89.8	90.4	90.4	91.0	91.1	91.1	91.4	91.6	91.7	92.0	92.0	92.0	92.0
GE 1200	88.4	89.4	89.8	90.4	91.2	91.2	91.7	92.0	92.0	92.4	92.6	92.7	93.0	93.0	93.0	93.0
GE 1000	88.5	89.5	89.9	90.6	91.4	91.4	91.9	92.3	92.5	92.9	93.2	93.3	93.7	93.7	93.7	93.8
GE 900	88.6	89.6	90.0	90.8	91.5	91.5	92.3	92.7	92.9	93.4	93.8	93.9	94.2	94.2	94.3	94.3
GE 800	88.9	90.0	90.4	91.2	91.9	91.9	92.7	93.1	93.3	93.9	94.3	94.4	94.7	94.7	94.8	94.8
GE 700	89.2	90.3	90.8	91.6	92.4	92.6	93.5	94.0	94.2	94.7	95.5	95.6	95.9	95.9	96.0	96.0
GE 600	89.2	90.4	90.9	91.7	92.5	92.7	93.7	94.1	94.3	94.8	95.6	95.7	96.1	96.1	96.2	96.2
GE 500	89.5	90.6	91.2	92.0	92.8	93.0	94.0	94.4	94.7	95.7	96.7	96.8	97.6	97.8	98.0	98.0
GE 400	89.7	90.9	91.7	92.6	93.3	93.5	94.5	95.1	95.4	96.3	97.3	97.4	98.4	98.6	98.7	98.7
GE 300	89.8	91.0	91.8	92.7	93.5	93.9	94.8	95.4	95.7	96.7	97.6	97.7	98.8	99.0	99.1	99.1
GE 200	89.8	91.0	91.8	92.7	93.5	93.9	94.8	95.4	95.7	96.7	97.6	97.7	99.1	99.4	99.5	99.6
GE 100	89.8	91.0	91.8	92.7	93.5	93.9	94.8	95.4	95.7	96.8	97.7	97.8	99.2	99.5	99.6	100.0
GE 000	89.8	91.0	91.8	92.7	93.5	93.9	94.8	95.4	95.7	96.8	97.7	97.8	99.2	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: DEC HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	57.0	57.0	57.1	57.4	57.6	57.6	57.6	57.6	57.6	57.6	57.7	57.7	57.7	57.7	57.7	57.7
GE 20000	67.4	67.5	67.6	68.0	68.2	68.2	68.2	68.2	68.2	68.2	68.3	68.3	68.3	68.3	68.3	68.4
GE 18000	67.8	68.0	68.1	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.8
GE 16000	68.1	68.2	68.3	68.6	68.8	68.8	68.8	68.8	68.8	68.8	68.9	68.9	68.9	68.9	68.9	69.0
GE 14000	68.8	68.9	69.0	69.4	69.6	69.6	69.6	69.6	69.6	69.6	69.7	69.7	69.7	69.7	69.7	69.8
GE 12000	70.9	71.0	71.1	71.4	71.6	71.6	71.6	71.6	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.8
GE 10000	74.2	74.4	74.5	74.8	75.1	75.1	75.1	75.1	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.3
GE 9000	75.1	75.3	75.4	75.7	76.0	76.0	76.0	76.0	76.0	76.1	76.2	76.2	76.2	76.2	76.2	76.3
GE 8000	77.2	77.4	77.7	78.1	78.4	78.4	78.5	78.5	78.5	78.8	78.9	78.9	78.9	78.9	78.9	79.0
GE 7000	79.1	79.4	79.7	80.0	80.3	80.3	80.4	80.4	80.4	80.8	80.9	80.9	80.9	80.9	80.9	81.0
GE 6000	79.8	80.0	80.3	80.6	81.0	81.0	81.1	81.1	81.1	81.4	81.5	81.5	81.5	81.5	81.5	81.6
GE 5000	81.6	82.2	82.5	83.0	83.3	83.3	83.4	83.4	83.4	83.8	84.0	84.0	84.0	84.0	84.0	84.1
GE 4500	82.2	82.7	83.0	83.7	84.0	84.0	84.1	84.1	84.1	84.4	84.6	84.6	84.6	84.6	84.6	84.7
GE 4000	83.7	84.2	84.6	85.3	85.6	85.6	85.7	85.7	85.7	86.0	86.2	86.2	86.2	86.2	86.2	86.3
GE 3500	85.6	86.2	86.7	87.3	87.6	87.6	87.7	87.7	87.7	88.1	88.3	88.3	88.3	88.3	88.3	88.4
GE 3000	86.1	87.0	87.5	88.2	88.7	88.7	88.8	88.8	88.8	89.2	89.5	89.5	89.5	89.5	89.5	89.6
GE 2500	86.2	87.1	87.6	88.4	88.9	88.9	89.0	89.0	89.0	89.5	89.7	89.7	89.7	89.7	89.7	89.8
GE 2000	87.0	88.0	89.0	89.8	90.3	90.3	90.4	90.4	90.5	91.1	91.3	91.4	91.4	91.4	91.4	91.5
GE 1800	87.0	88.0	89.0	89.8	90.3	90.3	90.4	90.4	90.5	91.1	91.3	91.4	91.4	91.4	91.4	91.5
GE 1500	87.4	88.5	89.6	90.3	90.9	90.9	91.1	91.1	91.2	91.7	91.9	92.0	92.0	92.0	92.0	92.2
GE 1200	87.5	88.7	89.8	90.6	91.2	91.2	91.6	91.6	91.7	92.3	92.5	92.7	92.7	92.7	92.7	92.8
GE 1000	87.8	89.0	90.2	91.1	91.6	91.6	92.2	92.4	92.5	93.0	93.2	93.4	93.4	93.4	93.4	93.5
GE 900	88.1	89.2	90.4	91.3	91.8	91.8	92.5	92.7	92.8	93.3	93.7	94.0	94.0	94.0	94.0	94.1
GE 800	88.3	89.5	90.6	91.5	92.0	92.0	92.7	92.9	93.0	93.7	94.1	94.5	94.5	94.5	94.5	94.6
GE 700	88.6	89.8	91.0	91.8	92.4	92.5	93.1	93.3	93.4	94.4	94.8	95.5	95.5	95.5	95.5	95.7
GE 600	88.6	89.8	91.1	91.9	92.5	92.6	93.2	93.4	93.5	94.5	94.9	95.6	95.8	95.8	95.8	96.0
GE 500	88.8	90.0	91.3	92.2	92.7	92.8	93.4	93.7	93.8	94.7	95.3	95.9	96.3	96.5	96.9	97.2
GE 400	89.0	90.3	91.6	92.5	93.0	93.1	93.8	94.2	94.3	95.3	95.9	96.8	97.3	97.4	97.8	98.2
GE 300	89.1	90.4	91.7	92.6	93.1	93.2	93.9	94.3	94.4	95.4	96.1	97.1	98.1	98.2	98.6	98.9
GE 200	89.1	90.4	91.7	92.7	93.2	93.3	94.0	94.4	94.5	95.6	96.3	97.3	98.4	98.6	99.0	99.4
GE 100	89.1	90.4	91.7	92.7	93.2	93.3	94.0	94.4	94.5	95.6	96.3	97.3	98.4	98.6	99.1	99.9
GE 000	89.1	90.4	91.7	92.7	93.2	93.3	94.0	94.4	94.5	95.6	96.3	97.3	98.5	98.7	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: DEC HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GF 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	59.5	59.6	59.7	59.8	59.9	59.9	60.0	60.0	60.0	60.0	60.2	60.2	60.2	60.2	60.2	60.2
GE 20000	66.0	66.1	66.2	66.3	66.5	66.5	66.6	66.6	66.6	66.6	66.8	66.8	66.8	66.8	66.8	66.8
GE 18000	67.3	67.4	67.5	67.6	67.7	67.7	67.8	67.8	67.8	67.8	68.1	68.1	68.1	68.1	68.1	68.1
GE 16000	67.3	67.4	67.5	67.6	67.7	67.7	67.8	67.8	67.8	67.8	68.1	68.1	68.1	68.1	68.1	68.1
GE 14000	67.8	68.0	68.1	68.2	68.3	68.3	68.4	68.4	68.4	68.4	68.6	68.6	68.6	68.6	68.6	68.6
GE 12000	68.9	69.0	69.1	69.2	69.4	69.4	69.5	69.5	69.5	69.5	69.7	69.7	69.7	69.7	69.7	69.7
GE 10000	72.0	72.3	72.4	72.5	72.6	72.6	72.7	72.7	72.7	72.7	72.9	72.9	72.9	72.9	72.9	72.9
GE 9000	72.4	72.6	72.7	72.8	72.9	72.9	73.0	73.0	73.0	73.2	73.4	73.4	73.4	73.4	73.4	73.4
GE 8000	74.2	74.6	74.7	74.8	74.9	74.9	75.1	75.2	75.2	75.4	75.6	75.6	75.6	75.6	75.6	75.6
GE 7000	74.9	75.4	75.5	75.7	75.8	75.8	75.9	76.0	76.0	76.2	76.5	76.5	76.5	76.5	76.5	76.5
GE 6000	76.6	77.0	77.1	77.3	77.4	77.4	77.5	77.6	77.6	77.8	78.1	78.1	78.1	78.1	78.1	78.1
GE 5000	79.4	79.8	79.9	80.1	80.2	80.2	80.3	80.4	80.4	80.6	80.9	80.9	80.9	80.9	80.9	80.9
GE 4500	80.3	80.8	80.9	81.1	81.2	81.2	81.3	81.4	81.4	81.6	81.8	81.8	81.8	81.8	81.8	81.8
GE 4000	82.4	82.8	82.9	83.1	83.2	83.2	83.3	83.4	83.4	83.7	83.9	83.9	83.9	83.9	83.9	83.9
GE 3500	83.9	84.3	84.4	84.7	84.8	84.8	84.9	85.1	85.1	85.3	85.5	85.5	85.5	85.5	85.5	85.5
GE 3000	84.7	85.2	85.4	85.8	85.9	85.9	86.0	86.1	86.1	86.3	86.6	86.6	86.6	86.6	86.6	86.6
GE 2500	85.5	85.9	86.1	86.6	86.7	86.7	86.8	86.9	86.9	87.1	87.3	87.3	87.3	87.3	87.3	87.3
GE 2000	86.8	87.2	87.4	87.8	88.0	88.0	88.1	88.2	88.2	88.4	88.6	88.6	88.6	88.6	88.6	88.6
GE 1800	86.8	87.2	87.4	87.8	88.0	88.0	88.1	88.2	88.2	88.4	88.6	88.6	88.6	88.6	88.6	88.6
GE 1500	87.3	87.7	88.0	88.4	88.5	88.5	88.6	88.7	88.7	88.9	89.1	89.1	89.1	89.1	89.1	89.1
GE 1200	88.1	88.5	88.7	89.1	89.6	89.6	90.0	90.1	90.1	90.4	90.6	90.6	90.6	90.6	90.6	90.6
GF 1000	89.0	89.7	89.9	90.3	90.8	90.8	91.4	91.7	91.7	92.2	92.4	92.4	92.4	92.4	92.4	92.4
GE 900	89.6	90.2	90.4	90.9	91.4	91.4	92.2	92.5	92.5	93.1	93.4	93.5	93.5	93.5	93.5	93.5
GE 800	90.2	91.0	91.2	91.8	92.5	92.5	93.4	93.8	93.8	94.4	94.7	94.8	94.8	94.8	94.8	94.8
GE 700	90.2	91.0	91.2	91.8	92.5	92.5	93.4	93.9	93.9	94.5	94.8	94.9	94.9	94.9	94.9	94.9
GE 600	90.3	91.1	91.3	91.9	92.6	92.6	93.5	94.0	94.0	94.6	94.9	95.1	95.1	95.1	95.1	95.1
GE 500	91.0	91.7	91.9	92.6	93.2	93.2	94.2	94.6	94.6	95.7	96.1	96.2	96.5	96.5	97.0	97.0
GE 400	91.3	92.0	92.3	92.9	93.5	93.5	94.5	95.1	95.1	96.1	96.7	96.8	97.3	97.3	97.8	97.8
GE 300	91.3	92.0	92.3	92.9	93.5	93.5	94.5	95.1	95.1	96.1	96.8	97.0	97.6	97.6	98.3	98.6
GE 200	91.4	92.3	92.5	93.1	94.0	94.0	95.1	95.6	95.6	96.8	97.4	97.6	98.7	98.7	99.4	99.7
GE 100	91.4	92.3	92.6	93.2	94.2	94.2	95.3	95.8	95.9	97.1	97.7	98.0	99.0	99.0	99.7	100.0
GE 000	91.4	92.3	92.6	93.2	94.2	94.2	95.3	95.8	95.9	97.1	97.7	98.0	99.0	99.0	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: DEC HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	59.2	59.2	59.5	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.9	59.9	59.9	59.9	59.9	59.9
GE 20000	65.9	65.9	66.1	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.6	66.6	66.6	66.6	66.6	66.6
GE 18000	66.6	66.6	66.8	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.2	67.2	67.2	67.2	67.2	67.2
GE 16000	66.6	66.6	66.8	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.2	67.2	67.2	67.2	67.2	67.2
GE 14000	67.0	67.0	67.2	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.6	67.6	67.6	67.6	67.6	67.6
GE 12000	67.2	67.2	67.4	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.8	67.8	67.8	67.8	67.8	67.8
GE 10000	70.1	70.1	70.3	70.4	70.5	70.5	70.5	70.5	70.5	70.5	70.8	70.8	70.8	70.8	70.8	70.8
GE 9000	70.3	70.3	70.5	70.6	70.8	70.8	70.8	70.8	70.8	70.8	71.0	71.0	71.0	71.0	71.0	71.0
GE 8000	73.4	73.4	73.7	73.8	73.9	73.9	73.9	73.9	73.9	73.9	74.1	74.1	74.1	74.1	74.1	74.1
GE 7000	74.0	74.1	74.4	74.5	74.6	74.6	74.6	74.6	74.6	74.6	74.8	74.8	74.8	74.8	74.8	74.8
GE 6000	75.3	75.4	75.7	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.2	76.2	76.2	76.2	76.2	76.2
GE 5000	77.4	77.5	78.1	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.6	78.6	78.6	78.6	78.6	78.6
GE 4500	78.1	78.3	78.8	79.0	79.2	79.2	79.2	79.2	79.2	79.2	79.5	79.5	79.5	79.5	79.5	79.5
GE 4000	79.9	80.1	80.6	80.9	81.1	81.1	81.1	81.1	81.1	81.1	81.3	81.3	81.3	81.3	81.3	81.3
GE 3500	81.3	81.5	82.0	82.3	82.5	82.5	82.5	82.5	82.5	82.5	82.7	82.7	82.7	82.7	82.7	82.7
GE 3000	82.7	82.9	83.8	84.0	84.3	84.3	84.3	84.3	84.3	84.3	84.5	84.5	84.6	84.6	84.8	84.8
GE 2500	83.5	83.8	84.7	84.9	85.4	85.4	85.6	85.6	85.6	85.6	85.8	85.8	85.9	85.9	86.1	86.1
GE 2000	84.6	84.8	85.8	86.0	86.6	86.6	86.8	86.8	86.8	86.8	87.0	87.0	87.1	87.1	87.3	87.3
GE 1800	85.1	85.3	86.2	86.5	87.0	87.0	87.2	87.2	87.2	87.2	87.4	87.4	87.5	87.5	87.7	87.7
GE 1500	86.2	86.7	87.6	87.8	88.4	88.4	88.6	88.6	88.6	88.6	88.8	88.8	88.9	88.9	89.1	89.1
GE 1200	87.4	87.9	88.8	89.0	89.8	89.8	90.0	90.0	90.0	90.0	90.2	90.5	90.5	90.6	90.9	90.9
GE 1000	88.2	88.6	89.6	89.9	90.8	90.8	91.1	91.2	91.2	91.2	91.4	91.8	91.8	91.9	91.9	92.2
GE 900	88.7	89.1	90.1	90.5	91.6	91.6	92.2	92.5	92.5	92.5	92.7	93.3	93.3	93.4	93.4	93.7
GE 800	88.8	89.2	90.2	90.8	91.9	91.9	92.5	92.8	92.8	93.3	94.0	94.0	94.1	94.1	94.3	94.3
GE 700	89.3	89.5	90.4	91.0	92.2	92.2	92.9	93.4	93.4	94.1	94.7	94.7	94.8	94.8	95.1	95.1
GE 600	89.4	89.8	90.8	91.3	92.5	92.5	93.2	93.8	93.8	94.4	95.1	95.1	95.2	95.2	95.4	95.4
GE 500	89.7	90.2	91.2	91.8	93.0	93.0	93.9	94.5	94.5	95.4	96.0	96.0	96.1	96.1	96.3	96.3
GE 400	90.2	90.5	91.5	92.4	93.5	93.5	94.4	95.2	95.2	96.1	96.8	96.8	97.1	97.1	97.3	97.3
GE 300	90.2	90.8	91.9	92.7	94.1	94.1	94.9	95.8	95.8	96.8	97.4	97.5	97.8	97.8	98.1	98.2
GE 200	90.6	91.2	92.4	93.1	94.5	94.5	95.4	96.2	96.2	97.4	98.2	98.3	98.9	98.9	99.2	99.4
GE 100	90.6	91.2	92.4	93.2	94.6	94.6	95.5	96.3	96.3	97.5	98.4	98.5	99.1	99.1	99.6	99.8
GE 000	90.6	91.2	92.4	93.2	94.6	94.6	95.5	96.3	96.3	97.6	98.5	98.7	99.4	99.4	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: DEC HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	57.7	57.8	57.9	58.0	58.1	58.1	58.1	58.1	58.1	58.1	58.2	58.2	58.2	58.2	58.2	58.3
GE 20000	65.5	65.6	65.7	65.8	65.9	65.9	65.9	65.9	65.9	65.9	66.0	66.0	66.1	66.1	66.1	66.1
GE 18000	66.0	66.1	66.2	66.3	66.4	66.4	66.4	66.4	66.4	66.4	66.5	66.5	66.5	66.5	66.5	66.6
GE 16000	66.1	66.2	66.3	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.6	66.6	66.6	66.6	66.6	66.7
GE 14000	66.5	66.6	66.7	66.8	67.0	67.0	67.0	67.0	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.2
GE 12000	67.6	67.7	67.8	67.9	68.0	68.1	68.1	68.1	68.1	68.1	68.2	68.2	68.2	68.2	68.2	68.3
GE 10000	71.0	71.2	71.3	71.4	71.5	71.5	71.6	71.6	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7
GE 9000	71.6	71.8	71.9	72.0	72.1	72.2	72.2	72.2	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.4
GE 8000	74.6	74.8	74.9	75.0	75.2	75.2	75.3	75.3	75.3	75.4	75.5	75.5	75.5	75.5	75.5	75.6
GE 7000	75.7	75.9	76.1	76.2	76.4	76.4	76.5	76.5	76.5	76.6	76.7	76.7	76.7	76.7	76.7	76.8
GE 6000	76.9	77.2	77.3	77.5	77.7	77.7	77.8	77.8	77.8	77.9	78.0	78.0	78.0	78.0	78.0	78.1
GE 5000	79.2	79.5	79.7	79.9	80.1	80.1	80.1	80.2	80.2	80.3	80.4	80.4	80.4	80.4	80.4	80.5
GE 4500	79.7	80.0	80.2	80.4	80.6	80.6	80.7	80.7	80.7	80.8	81.0	81.0	81.0	81.0	81.0	81.0
GE 4000	81.6	81.9	82.1	82.4	82.6	82.6	82.7	82.7	82.8	82.9	83.0	83.0	83.0	83.0	83.0	83.1
GE 3500	82.7	83.0	83.3	83.6	83.8	83.8	83.9	84.0	84.0	84.1	84.2	84.2	84.3	84.3	84.3	84.3
GE 3000	83.9	84.3	84.6	84.9	85.2	85.2	85.4	85.5	85.5	85.6	85.8	85.8	85.9	85.9	85.9	86.0
GE 2500	84.8	85.1	85.5	85.8	86.1	86.1	86.4	86.4	86.4	86.6	86.8	86.8	86.9	86.9	86.9	86.9
GE 2000	85.8	86.3	86.8	87.2	87.7	87.7	88.0	88.1	88.1	88.3	88.5	88.5	88.6	88.6	88.6	88.7
GE 1800	86.0	86.5	87.0	87.4	87.9	87.9	88.2	88.3	88.3	88.5	88.7	88.8	88.8	88.8	88.9	88.9
GE 1500	86.7	87.2	87.7	88.2	88.7	88.7	89.0	89.1	89.1	89.4	89.6	89.7	89.8	89.8	89.8	89.9
GE 1200	87.3	87.8	88.4	88.9	89.5	89.5	89.9	90.1	90.1	90.3	90.6	90.7	90.8	90.8	90.8	90.9
GE 1000	87.7	88.3	88.9	89.5	90.0	90.0	90.6	90.8	90.9	91.2	91.5	91.7	91.8	91.8	91.8	91.9
GE 900	88.0	88.6	89.2	89.8	90.4	90.5	91.1	91.4	91.4	91.8	92.3	92.4	92.5	92.5	92.6	92.6
GE 800	88.4	89.0	89.7	90.3	91.0	91.0	91.6	91.9	92.0	92.5	93.0	93.1	93.3	93.3	93.3	93.3
GE 700	88.7	89.3	89.9	90.6	91.3	91.4	92.2	92.5	92.6	93.1	93.7	94.0	94.1	94.1	94.1	94.2
GE 600	88.9	89.6	90.3	91.0	91.7	91.7	92.5	92.9	92.9	93.6	94.2	94.4	94.6	94.6	94.7	94.7
GE 500	89.3	90.0	90.7	91.5	92.2	92.3	93.2	93.7	93.8	94.7	95.7	96.0	96.3	96.3	96.5	96.6
GE 400	89.7	90.5	91.2	92.0	92.8	92.9	93.8	94.4	94.5	95.7	96.7	97.0	97.4	97.5	97.6	97.7
GE 300	89.9	90.7	91.5	92.3	93.2	93.3	94.3	94.9	95.0	96.3	97.3	97.7	98.3	98.4	98.5	98.7
GE 200	89.9	90.7	91.6	92.4	93.3	93.4	94.4	95.1	95.2	96.6	97.7	98.2	99.0	99.0	99.3	99.5
GE 100	89.9	90.7	91.6	92.5	93.4	93.5	94.5	95.2	95.3	96.8	97.9	98.4	99.2	99.3	99.7	99.9
GE 000	89.9	90.7	91.6	92.5	93.4	93.5	94.5	95.2	95.3	96.8	97.9	98.4	99.2	99.3	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: ALL HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	57.9	58.0	58.0	58.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.2
GE 20000	66.6	66.6	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.9	66.9
GE 18000	66.8	66.9	67.0	67.0	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
GE 16000	67.0	67.0	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.3
GE 14000	67.6	67.7	67.7	67.8	67.8	67.8	67.8	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
GE 12000	69.1	69.2	69.2	69.3	69.3	69.3	69.3	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
GE 10000	73.0	73.1	73.2	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.4
GE 9000	73.6	73.7	73.7	73.7	73.8	73.8	73.8	73.8	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9
GE 8000	77.2	77.3	77.4	77.4	77.5	77.5	77.5	77.5	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 7000	78.3	78.4	78.4	78.5	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.7	78.7	78.7
GE 6000	79.5	79.6	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9
GE 5000	81.9	82.0	82.1	82.1	82.2	82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.4	82.4
GE 4500	82.5	82.6	82.7	82.8	82.9	82.9	82.9	82.9	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.1
GE 4000	84.9	85.1	85.2	85.3	85.4	85.4	85.4	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.6	85.6
GE 3500	85.9	86.0	86.1	86.2	86.3	86.4	86.4	86.4	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.6
GE 3000	87.4	87.6	87.8	87.9	88.1	88.1	88.1	88.2	88.2	88.2	88.2	88.3	88.3	88.3	88.3	88.3
GE 2500	88.2	88.3	88.6	88.7	88.9	88.9	89.0	89.0	89.0	89.1	89.1	89.1	89.2	89.2	89.2	89.2
GE 2000	89.2	89.4	89.7	89.9	90.1	90.1	90.2	90.2	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.5
GE 1800	89.4	89.6	89.9	90.1	90.3	90.4	90.4	90.5	90.5	90.6	90.6	90.6	90.6	90.7	90.7	90.7
GE 1500	90.2	90.4	90.7	91.0	91.2	91.2	91.3	91.4	91.4	91.5	91.5	91.6	91.6	91.6	91.6	91.6
GE 1200	90.8	91.1	91.4	91.7	92.0	92.0	92.2	92.3	92.3	92.3	92.4	92.4	92.5	92.5	92.5	92.5
GE 1000	91.4	91.7	92.0	92.4	92.7	92.7	92.9	93.0	93.1	93.2	93.3	93.3	93.3	93.4	93.4	93.4
GE 900	91.6	91.9	92.3	92.7	93.0	93.0	93.2	93.3	93.4	93.5	93.6	93.6	93.7	93.7	93.7	93.8
GE 800	91.9	92.2	92.7	93.1	93.4	93.4	93.6	93.8	93.8	94.0	94.1	94.1	94.2	94.2	94.2	94.3
GE 700	92.2	92.5	93.0	93.4	93.8	93.8	94.0	94.2	94.2	94.4	94.6	94.6	94.7	94.7	94.8	94.8
GE 600	92.4	92.8	93.3	93.7	94.1	94.2	94.4	94.6	94.7	94.9	95.0	95.1	95.2	95.2	95.3	95.3
GE 500	92.9	93.3	93.8	94.4	94.8	94.9	95.2	95.5	95.5	95.9	96.1	96.2	96.3	96.4	96.4	96.5
GE 400	93.2	93.7	94.3	94.9	95.5	95.5	95.9	96.2	96.3	96.8	97.1	97.2	97.4	97.4	97.5	97.6
GE 300	93.4	93.9	94.5	95.2	95.8	95.9	96.4	96.7	96.8	97.4	97.7	97.9	98.2	98.2	98.3	98.4
GE 200	93.5	94.0	94.7	95.4	96.0	96.1	96.6	97.0	97.1	97.8	98.2	98.5	98.9	99.0	99.2	99.4
GE 100	93.5	94.0	94.7	95.4	96.1	96.2	96.7	97.1	97.2	97.9	98.3	98.6	99.1	99.2	99.5	99.8
GE 000	93.5	94.0	94.7	95.4	96.1	96.2	96.7	97.1	97.2	97.9	98.3	98.6	99.1	99.3	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 87641

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JAN HOURS: ALL

HOURS (LST)	AIRWAY CLASSES				TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
	CLEAR	SCATTERED	BROKEN	OVERCAST				
00-02	24.0	31.0	21.9	20.4	2.7	45.1	1.1	930
03-05	21.8	31.9	22.3	21.2	2.8	46.2	1.9	930
06-08	11.0	35.5	33.4	17.0	3.1	50.5	1.1	930
09-11	6.2	34.3	39.5	17.2	2.8	59.5	2.6	930
12-14	4.6	35.8	39.9	17.6	2.0	59.6	1.2	930
15-17	3.3	42.9	37.1	15.6	1.1	53.8	1.5	930
18-20	9.8	41.6	26.3	20.4	1.8	48.6	.6	930
21-23	17.1	34.4	24.0	22.3	2.3	48.5	1.2	930
ALL HOURS	12.2	35.9	30.6	19.0	2.3	51.8	1.4	7440

MONTH: FEB HOURS: ALL

00-02	23.0	29.8	21.6	20.1	5.4	47.2	1.9	846
03-05	23.3	29.6	21.9	20.4	4.8	47.2	1.3	846
06-08	10.4	34.9	29.2	21.5	4.0	54.7	1.8	846
09-11	6.4	29.9	36.4	23.3	4.0	63.7	3.4	846
12-14	3.7	34.2	40.5	18.8	2.8	62.2	3.3	846
15-17	4.0	34.6	38.9	19.2	3.3	61.4	2.7	845
18-20	10.1	36.8	27.6	21.5	4.0	53.1	.7	843
21-23	20.3	31.4	21.2	22.1	5.0	48.3	1.2	843
ALL HOURS	12.6	32.6	29.7	20.9	4.2	54.7	2.0	6761

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAR HOURS:ALL

HOURS (LST)	AIRWAY CLASSES					GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
	CLEAR	SCATTERED	BROKEN	OVERCAST	TOTAL OBSCURATION			
00-02	22.5	27.6	19.4	23.5	7.0	49.9	1.1	930
03-05	19.1	26.6	24.9	22.7	6.7	54.3	2.2	930
06-08	6.7	30.6	32.7	21.9	8.1	62.7	2.7	930
09-11	5.2	31.8	34.5	23.4	5.1	63.0	2.8	930
12-14	2.7	29.0	39.9	25.4	1.0	68.3	2.0	930
15-17	2.4	29.6	38.6	26.7	2.8	68.1	1.9	930
18-20	5.2	36.9	29.4	24.4	4.2	58.0	1.5	930
21-23	18.3	31.6	21.2	22.2	6.8	50.1	.6	930
ALL HOURS	10.2	30.5	30.1	23.8	5.4	59.3	1.9	7440

MONTH: APR HOURS: ALL

00-02	23.6	31.9	20.6	20.3	3.4	44.3	.9	900
03-05	20.6	33.8	21.3	21.1	3.2	45.7	1.7	900
06-08	8.4	33.8	34.0	19.3	4.4	57.8	2.2	900
09-11	5.3	33.0	38.9	19.4	3.3	61.7	1.2	900
12-14	3.3	31.2	41.9	21.1	2.4	65.4	1.0	900
15-17	2.3	31.2	42.7	21.8	2.0	66.4	1.4	900
18-20	3.6	39.8	32.6	21.6	2.6	56.7	1.0	900
21-23	20.7	33.6	20.9	21.8	3.1	45.8	.7	900
ALL HOURS	11.0	33.5	31.6	20.8	3.1	55.5	1.3	7200



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAY HOURS:ALL

HOURS (LST)	AIRWAY CLASSES				TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
	CLEAR	SCATTERED	BROKEN	OVERCAST				
00-02	18.1	35.5	22.3	23.0	1.2	46.5	.1	930
03-05	8.8	38.9	28.3	22.0	1.9	52.3	1.0	930
06-08	5.9	39.2	34.1	19.8	1.0	54.8	1.0	930
09-11	2.2	40.6	36.3	20.2	.6	57.2		930
12-14	.4	33.1	45.7	20.6	.1	66.5	.1	930
15-17	.1	32.8	46.1	20.6	.3	67.1		930
18-20	1.4	36.5	41.3	20.4	.4	62.2		930
21-23	12.3	40.6	23.9	22.5	.8	47.1	.1	930
ALL HOURS	6.1	37.2	34.7	21.2	.8	56.7	.3	7440

MONTH: JUN HOURS: ALL

00-02	22.9	38.6	19.6	18.2	.8	38.6	.1	900
03-05	10.0	46.1	28.1	15.1	.7	43.9	.2	900
06-08	7.3	45.4	33.4	13.7	.1	47.2	.7	900
09-11	3.1	50.2	33.7	13.0		46.7	.4	900
12-14	1.0	44.9	43.3	10.7	.1	54.1		900
15-17	1.3	39.8	49.8	9.1		58.9		900
18-20	2.7	44.4	42.1	10.6	.2	52.9		900
21-23	12.9	43.7	26.7	16.3	.4	43.4	.1	900
ALL HOURS	7.7	44.1	34.6	13.3	.3	48.2	.2	7200

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JUL HOURS:ALL

HOURS (LST)	AIRWAY CLASSES				TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
	CLEAR	SCATTERED	BROKEN	OVERCAST				
00-02	24.3	38.9	23.8	12.4	.6	36.8	.3	930
03-05	11.5	48.2	29.9	9.9	.5	40.3	.9	930
06-08	9.0	48.8	34.4	7.4	.3	42.2	.9	930
09-11	5.3	56.6	30.8	7.4		38.2	.4	930
12-14	.6	56.7	35.7	7.0		42.7		930
15-17	.3	47.0	47.6	5.1		52.7	.1	930
18-20	2.3	45.3	44.5	7.8	.1	52.5		930
21-23	14.7	42.6	30.3	11.7	.6	42.7	.2	930
ALL HOURS	8.5	48.0	34.6	8.6	.3	43.5	.3	7440

MONTH: AUG HOURS: ALL

00-02	25.1	39.6	23.9	11.4	.1	35.4	.2	930
03-05	16.9	48.4	24.9	9.2	.5	34.7	.2	930
06-08	10.6	48.6	34.0	6.7	.1	40.8	1.0	930
09-11	6.3	57.6	29.6	6.3	.1	36.0		930
12-14	1.8	54.5	38.5	5.2		43.7	.1	930
15-17	.8	51.2	45.2	2.9		48.1		930
18-20	4.6	52.6	38.1	4.7		42.8		930
21-23	23.1	40.4	26.7	9.8		36.5	.1	930
ALL HOURS	11.2	49.1	32.6	7.0	.1	39.7	.2	7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: SEP HOURS:ALL

HOURS (LST)	AIRWAY CLASSES				TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
	CLEAR	SCATTERED	BROKEN	OVERCAST				
00-02	32.2	31.2	18.4	16.2	1.9	36.6	.8	900
03-05	27.4	32.1	21.4	15.6	3.4	40.4	.4	900
06-08	13.2	39.4	31.1	13.3	2.9	47.3	1.4	900
09-11	11.0	44.7	28.8	14.4	1.1	44.3	2.2	900
12-14	6.6	47.1	31.1	14.9	.3	46.3	1.7	900
15-17	5.6	43.9	37.1	12.6	.9	50.6	1.0	900
18-20	13.7	41.6	29.1	14.4	1.2	44.8	.8	900
21-23	27.8	36.0	19.2	15.3	1.7	36.2	.2	900
ALL HOURS	17.2	39.5	27.0	14.6	1.7	43.3	1.1	7200

MONTH: OCT HOURS: ALL

00-02	28.3	31.1	19.8	20.1	.8	40.6	.5	930
03-05	28.8	33.3	17.1	18.8	1.9	37.8	.6	930
06-08	8.2	40.8	34.3	14.6	2.2	51.1	1.0	930
09-11	5.6	38.4	37.7	16.6	1.7	56.0	.4	930
12-14	3.4	39.1	40.3	16.7	.4	57.4	.4	930
15-17	4.4	39.8	41.2	14.4	.2	55.8	1.4	930
18-20	13.7	41.2	28.0	17.0	.2	45.2	.4	930
21-23	24.9	33.3	21.3	20.1	.3	41.7	.3	930
ALL HOURS	14.7	37.1	30.0	17.3	1.0	48.2	.6	7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: NOV HOURS:ALL

HOURS (LST)	AIRWAY CLASSES				TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
	CLEAR	SCATTERED	BROKEN	OVERCAST				
00-02	22.8	31.2	22.1	20.2	3.7	46.0	1.8	900
03-05	23.2	29.1	24.1	20.2	3.3	47.7	1.2	900
06-08	11.8	31.3	33.3	19.2	4.3	56.9	1.4	900
09-11	7.8	31.6	39.7	17.6	3.4	60.7	3.1	900
12-14	4.2	34.6	39.8	19.6	1.9	61.2	1.7	900
15-17	3.9	36.3	36.7	20.6	2.6	59.8	.9	900
18-20	12.7	35.2	25.4	22.7	4.0	52.1	1.4	900
21-23	18.0	32.1	23.0	22.4	4.4	49.9	1.0	900
ALL HOURS	13.0	32.7	30.5	20.3	3.5	54.3	1.6	7200

MONTH: DEC HOURS: ALL

00-02	23.4	29.8	22.0	20.8	4.0	46.8	2.4	930
03-05	26.7	30.6	19.7	19.0	4.0	42.7	1.3	930
06-08	12.2	37.8	29.6	16.8	3.7	50.0	1.4	930
09-11	5.8	37.8	38.1	14.4	3.9	56.3	2.6	930
12-14	5.3	38.0	38.3	15.1	3.4	56.8	1.9	930
15-17	6.2	37.0	39.8	13.1	3.9	56.8	2.3	930
18-20	14.0	36.3	27.2	18.6	3.9	49.7	1.6	930
21-23	20.8	30.3	23.8	21.3	3.9	48.9	1.6	930
ALL HOURS	14.3	34.7	29.8	17.4	3.8	51.0	1.9	7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: ALL HOURS: ALL

HOURS (LST)	AIRWAY CLASSES					GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
	CLEAR	SCATTERED	BROKEN	OVERCAST	TOTAL OBSCURATION			
00-02	24.2	33.0	21.3	18.9	2.6	42.8	.9	10956
03-05	19.8	35.8	23.7	17.9	2.8	44.4	1.1	10956
06-08	9.5	38.9	32.8	15.9	2.8	51.6	1.4	10956
09-11	5.8	40.6	35.3	16.1	2.2	53.5	1.6	10956
12-14	3.1	39.9	39.6	16.0	1.4	57.0	1.1	10956
15-17	2.9	38.9	41.8	15.1	1.4	58.2	1.1	10955
18-20	7.8	40.7	32.7	17.0	1.9	51.5	.7	10953
21-23	19.2	35.9	23.5	19.0	2.4	44.9	.6	10953
ALL HOURS	11.5	38.0	31.3	17.0	2.2	50.5	1.1	87641



PPPPPPPP	AAAAAA	RRRRRRRR	TTTTTTTTTT	EEEEEEEEEE
PPPPPPPP	AAAAAAA	RRRRRRRR	TTTTTTTTTT	EEEEEEEEEE
PP PP	AA AA	RR RR	TT	EE
PP PP	AA AA	RR RR	TT	EE
PPPPPPPP	AA AA	RRRRRRRR	TT	EEEEEE
PPPPPPPP	AAAAAAAAA	RRRRRRRR	TT	EEEEEE
PP	AAAAAAAAA	RR RR	TT	EE
PP	AA AA	RR RR	TT	EE
PP	AA AA	RR RR	TT	EEEEEEEEEE
PP	AA AA	RR RR	TT	EEEEEEEEEE

PART E

TEMPERATURE AND RELATIVE HUMIDITY SUMMARIES

TEMPERATURE--CUMULATIVE PERCENT OCCURRENCE FREQUENCY (POF).

THESE TABLES ARE CREATED FROM SUMMARY OF DAY DATA AND GIVE CUMULATIVE POF FOR MAXIMUM, MINIMUM, AND MEAN TEMPERATURES, RESPECTIVELY. DATA IS SUMMARIZED BY MONTH FOR ALL YEARS COMBINED. TOTALS ARE GIVEN FOR THE WHOLE YEAR. DATA IS DISPLAYED USING 5-DEGREE FAHRENHEIT INCREMENTS (GE 0, GE 5, GE 10, ETC).. THERE IS ONE SPECIAL THRESHOLD FOR "GE 33" DEGREES. MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS ARE GIVEN.

NOTE 1. BEGINNING IN JANUARY 1946, DAILY MAXIMUM AND MINIMUM TEMPERATURES CAME ROUTINELY FROM HOURLY OBSERVATIONS ON AWS FORMS 10/10A OR FROM AUTOMATED DATA COLLECTION FROM ALL USAF-OPERATED STATIONS. REFER TO THE "STATION HISTORY" PAGE FOR DETAILED INFORMATION ON REPORTING PRACTICES.

MONTHLY TEMPERATURES.

ALSO FROM SUMMARY OF DAY DATA, THE TABLES GIVE MONTHLY MAXIMUM AND MINIMUM TEMPERATURES BY MONTH AND BY YEAR. MONTHLY RECORD TEMPERATURES (MAX AND MIN) ARE GIVEN, ALONG WITH TOTAL OBSERVATIONS. AN ASTERISK (\*) INDICATES A VALUE FOR A MONTH FOR WHICH LESS THAN 90% OF THE DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS.

MEAN MONTHLY TEMPERATURE.

ALSO FROM SUMMARY OF DAY DATA, GIVES MONTHLY MEAN TEMPERATURE BY MONTH, FOR ALL MONTHS, AND FOR ALL YEARS. AN ASTERISK (\*) INDICATES A VALUE FOR A MONTH FOR WHICH LESS THAN 90% OF THE DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS.

DRY BULB, WET BULB, AND DEW POINT TEMPERATURES.

THESE TABLES ARE CREATED FROM HOURLY OBSERVATIONS--DATA IS SUMMARIZED:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS ARE GIVEN.

THE MEAN NUMBER OF HOURS WITH TEMPERATURES FOR VARIOUS THRESHOLDS ALSO APPEAR AS SPECIFIED IN EACH SUMMARY AND IN ACCORDANCE WITH AFM 88-29, "ENGINEERING WEATHER DATA," AND AWSP 105-56, "METEOROLOGICAL TECHNIQUES."

NOTE 1. WINTER WET BULB AND DEW POINT MEAN TEMPERATURES FOR VERY COLD STATIONS MUST BE USED WITH CAUTION. WHEN THE DRY BULB TEMPERATURE IS BELOW -35 DEGREES F, DEW POINT TEMPERATURES ARE NOT REPORTED (FMH-1B). AS A RESULT, WINTER MEAN DEW POINTS (AND MORE FREQUENTLY, WINTER MEAN WET BULB TEMPERATURES) ARE ACTUALLY LOWER THAN SHOWN IN THE TABLES. IN SOME HOUR GROUPS, IN FACT, MEAN WET BULB TEMPERATURES MAY ACTUALLY BE SHOWN AS EXCEEDING THE MEAN DRY BULB TEMPERATURES.



SPECIAL CAVEAT: DURING PART TIME PERIODS, THESE SUMMARIES REPRESENT THE "HIGH" AND "LOW" TEMPERATURES RECORDED AND NOT NECESSARILY THE ACTUAL MAXIMUM AND MINIMUM VALUES. THESE SUMMARIES ARE INFLUENCED BY THE ABSENCE OF NIGHTTIME TEMPERATURE READINGS. THEREFORE, CERTAIN SUMMARIES MAY DEPICT A SLIGHT "WARM" BIAS.

TEMPERATURE CONVERSIONS:  $F = 1.8C + 32$

$C = K - 273.0$  (BEFORE 5 APRIL 77)

$C = K - 273.2$  (SINCE 5 APRIL 77)

RELATIVE HUMIDITY--CUMULATIVE PERCENT OCCURRENCE FREQUENCY (POF).

CREATED FROM HOURLY OBSERVATIONS, THESE TABLES GIVE POF OF RELATIVE HUMIDITY FOR 10% INCREMENTS. MEANS AND TOTAL OBSERVATION COUNTS ARE ALSO PROVIDED. THE DATA IS SUMMARIZED AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF MAXIMUM TEMPERATURES IN FAHRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 3902-4506,4804-9102  
MONTH: ALL HOURS: ALL

TEMP (DEG-F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
GE 110							.1						.0
GE 105						.2	1.0	.3					.1
GE 100						1.3	4.9	3.0	.6				.8
GE 95					.1	3.6	16.3	13.4	2.9				3.0
GE 90				.1	1.1	10.2	35.7	33.0	10.7	.4			7.7
GE 85				.9	5.9	22.8	58.2	54.2	22.7	2.6			14.0
GE 80			.4	4.1	14.4	38.0	77.4	72.6	37.1	8.8			21.2
GE 75			1.4	9.1	27.1	56.4	90.5	87.4	51.9	17.1	.3		28.6
GE 70	.2	.3	3.4	17.6	41.1	73.3	96.8	93.8	65.7	30.0	3.8	.6	35.7
GE 65	.9	1.5	6.9	28.3	57.7	87.3	98.9	97.7	77.4	44.8	9.5	1.8	42.9
GE 60	3.1	5.5	14.4	40.4	74.9	94.0	99.6	99.5	86.2	59.8	19.3	5.8	50.4
GE 55	7.2	12.3	22.4	54.9	85.6	97.8	99.9	100.0	92.4	72.3	29.6	11.6	57.4
GE 50	15.5	21.4	33.8	68.3	93.0	99.4	100.0		96.2	80.9	43.7	20.4	64.6
GE 45	26.7	32.7	46.0	79.4	96.9	99.9			98.4	90.1	56.1	32.4	71.7
GE 40	39.0	46.1	59.6	88.5	98.6	99.9			99.6	95.5	68.9	46.0	78.6
GE 35	51.1	57.3	71.2	94.1	99.8	100.0			100.0	97.8	78.3	58.7	84.2
GE 33	55.4	62.1	75.2	96.7	99.9					98.6	82.8	65.0	86.4
GE 30	61.5	68.7	81.2	99.1	100.0					99.6	87.9	71.8	89.2
GE 25	69.4	76.8	88.5	99.6						99.8	93.3	79.8	92.3
GE 20	75.5	84.2	94.4	99.9						100.0	95.5	85.6	94.6
GE 15	82.2	90.8	97.3	100.0							97.5	91.1	96.6
GE 10	87.9	94.6	98.8								99.0	94.9	97.9
GE 5	92.7	97.6	99.7								99.7	96.6	98.9
GE 0	96.0	98.9	99.9								100.0	98.5	99.4
GE -5	98.6	99.6	100.0									99.1	99.8
GE -10	99.7	99.8										99.7	99.9
GE -15	100.0	99.9										99.9	100.0
GE -20		100.0										100.0	100.0
MEAN	32.3	36.4	42.9	56.2	66.8	76.1	85.9	84.7	74.0	61.9	46.1	36.7	58.4
SD	17.04	15.56	14.80	13.34	11.50	10.56	8.65	8.97	12.64	12.87	14.24	15.37	22.74
TOTAL OBS	1508	1411	1519	1499	1549	1478	1511	1519	1470	1519	1468	1517	17968

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF MINIMUM TEMPERATURES IN FAHRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 3902-4506,4804-9102  
MONTH: ALL HOURS: ALL

TEMP (DEG-F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
GE 80							.1						.0
GE 75						.1	.8		.1				.1
GE 70						.9	7.6	4.1	.3				1.1
GE 65					.3	5.4	28.4	20.5	2.9				4.8
GE 60				.3	2.4	21.9	64.4	54.2	10.1	.3			12.9
GE 55				.9	9.6	48.0	88.9	80.6	26.3	2.4	.1		21.5
GE 50			.1	3.4	27.7	75.8	98.1	93.9	49.9	8.8	.1	.1	30.0
GE 45		.1	.8	11.3	51.6	92.6	99.9	99.3	71.3	24.7	1.1	.3	37.9
GE 40	.4	.8	3.6	27.0	77.1	98.2	100.0	100.0	87.4	46.9	6.4	1.7	46.0
GE 35	3.2	4.9	12.0	48.8	91.0	99.7			94.9	67.8	19.8	5.4	54.2
GE 33	6.2	7.7	18.7	58.7	94.2	99.9			96.5	75.5	26.6	9.2	58.0
GE 30	11.6	14.7	31.2	72.9	97.5	100.0			98.8	85.3	39.3	16.0	64.2
GE 25	24.1	30.1	51.4	89.5	99.3				99.9	94.9	60.2	31.4	73.6
GE 20	37.3	45.9	68.7	95.9	100.0				99.9	98.5	76.4	47.7	81.0
GE 15	49.8	59.5	79.0	98.9					100.0	99.9	85.7	62.2	86.4
GE 10	60.4	71.2	86.8	99.7						100.0	92.4	73.6	90.4
GE 5	69.6	81.3	92.8	100.0							95.5	83.3	93.6
GE 0	77.0	88.3	95.9								98.0	90.4	95.8
GE -5	85.2	94.7	98.7								99.3	94.7	97.7
GE -10	92.6	97.9	99.5								99.9	97.1	98.9
GE -15	97.0	99.1	99.9								100.0	98.4	99.5
GE -20	99.3	99.7	100.0									99.3	99.9
GE -25	100.0	100.0										99.7	100.0
GE -30												100.0	100.0
MEAN	12.3	16.3	23.0	34.4	44.8	54.1	61.3	59.5	49.1	38.5	25.7	17.0	36.4
SD	14.58	12.60	11.11	8.35	7.58	6.73	5.59	5.95	8.33	8.35	10.40	12.82	19.36
TOTAL OBS	1508	1411	1519	1499	1549	1478	1511	1519	1470	1519	1468	1517	17968

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF MEAN TEMPERATURES IN FAHRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: 3902-4506,4804-9102  
LST TO UTC: +07 MONTH: ALL HOURS: ALL

TEMP (DEG-F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
GE 90						.1	.4	.1					.1
GE 85						.8	4.5	1.6	.3				.6
GE 80					.1	3.3	19.7	14.4	2.1				3.3
GE 75				.1	1.0	12.7	46.7	40.4	8.9	.2			9.2
GE 70				.7	6.1	29.8	74.3	66.9	23.1	1.7			17.0
GE 65			.1	2.9	17.7	53.7	92.4	86.0	40.8	7.0	.1		25.2
GE 60			.7	8.8	34.7	75.8	98.4	96.1	60.8	18.1	.4		33.0
GE 55	.1	.2	2.7	18.9	56.2	91.5	99.7	99.5	77.1	35.0	3.5	.5	40.6
GE 50	.9	2.3	7.6	33.6	77.5	97.8	100.0	100.0	89.3	55.7	12.4	2.7	48.5
GE 45	4.2	7.0	17.2	53.8	91.0	99.5			94.6	72.5	25.1	8.4	56.4
GE 40	13.1	17.3	32.1	71.8	96.8	99.9			97.8	85.6	41.7	17.8	64.7
GE 35	24.3	31.0	48.3	85.3	98.7	100.0			99.8	93.7	57.9	31.0	72.7
GE 33	29.3	36.8	55.7	90.3	99.4				99.9	95.7	64.3	37.6	75.9
GE 30	37.9	46.1	64.9	94.7	99.9				100.0	98.2	72.7	47.5	80.3
GE 25	52.3	58.5	76.7	98.5	100.0					99.5	85.6	61.5	86.2
GE 20	62.0	71.7	86.0	99.5						99.9	92.0	74.0	90.5
GE 15	69.4	80.2	91.2	99.9						100.0	95.2	81.8	93.2
GE 10	77.7	87.9	96.1	100.0							97.3	89.5	95.7
GE 5	84.5	94.0	98.2								98.7	93.6	97.4
GE 0	89.7	96.7	99.3								99.7	95.7	98.4
GE -5	95.6	98.9	99.9								99.9	98.0	99.4
GE -10	98.5	99.4	100.0								100.0	98.9	99.7
GE -15	99.8	99.7										99.7	99.9
GE -20	100.0	99.9										99.9	100.0
GE -25		100.0										100.0	100.0
MEAN	22.5	26.6	33.1	45.5	56.0	65.3	73.8	72.3	61.7	50.4	36.1	27.0	47.6
SD	15.30	13.46	12.31	10.04	8.78	8.06	6.49	6.80	9.75	9.89	11.66	13.62	20.69
TOTAL OBS	1508	1411	1519	1499	1549	1478	1511	1519	1470	1519	1468	1518	17969

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

MONTHLY MAXIMUM TEMPERATURES IN FAHRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 3902-4506,4804-9102  
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
39		58	76	87	97	98	107	98	96	76	70	74	107*
40	55	62	67	74	93	98	104	98	96	81	64	62	104
41	63	62	66	71	89	92	103	106	94	83	65	71	106
42	68	56	64	87	83	85	94	99	96	83	77	58	99
43	57*	66	80	84	92	71*	102*	100	94	87	70	64	102*
44	59	52	55	72	87	92	94	103	90	79	68	60	103
45	51	54	72	79	79	91							91*
48				84	94	88	100	102	102	83	62	66	102*
49	54	52	56	83	86	97	104	104	93	88	72	59	104
50	53	62	66	74	85	98	95	95	92	83	65	58	98
51	53	71	65	83	89	84	102	94	82	84	65	66	102
52	56	63	57	86	89	101	108	97	96	80	76	66	108
53	67	54	64	79	82	92	93	100	89	93	75	59	100
54	63	72	71	79	89	99	106	100	91	86	73	60	106
55	60	53	65	84	89	97	99	99	97	88	73	65	99
56	61	64	78	78	83	99	97	92	90	88	67	62	99
57	44	63	67	73	84	86	97	97	88	87	64	71	97
58	63	68	66	83	87	90	90	100	94	85	71	65	100
59	58	54	66	84	85	96	97	100	102	75	72	63	102
60	61	63	76	84	88	95	102	101	103	85	74	64	103
61	59	69	75	81	89	105	100	103	92	83	68	60	105
62	60	71	70	86	83	90	89	98	93	82	69	62	98
63	60	64	80	81	88	94	99	98	96	94	70	64	99
64	59	57	72	77	89	92	100	99	93	79	73	62	100
65	60	65	58	79	87	81	98	99	90	87	74	73	99
66	61	47	75	72	88	103	109	95	94	84	69	64	109
67	62	64	82	74	84	84	96	98	91	85	70	58	98
68	66	58	73	79	77	93	95	96	91	84	64	60	96
69	55	54	71	81	97	95	99	105	94	83	73	70	105
70	60	66	66	80	85	98	96	100	97	85	64	57	100

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

MONTHLY MAXIMUM TEMPERATURES IN FAHRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 3902-4506,4804-9102  
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
71	51	50	70	82	79	90	96	100	102	79	70	59	102
72	61	67	81	73	85	89	96	99	94	81	60	64	99
73	65	60	63	74	86	91	111	102	88	82	68	70	111
74	68	61	73	82	82	106	100	100	92	87	70	60	106
75	50	48	61	79	87	39	104	107	87	92	73	66	107
76	56	64	64	78	88	90	98	101	101	85	71	58	101
77	43	63	68	82	84	96	103	94	91	81	69	57	103
78	44	43	79	74	88	92	95	102	103	82	73	48	103
79	41	43	65	80	89	100	93	95	99	83	67	70	100
80	58	68	63	86	88	102	109	100	94	90	75	67	109
81	69	60	63	83	81	93	106	101	95	85	67	63	106
82	62	68	65	76	81	80	97	91	96	75	65	58	97
83	60	67	68	70	84	93	102	102	100	80	71	41	102
84	62	62	67	72	85	88	97	100	93	82	72	66	100
85	54	58	67	84	92	96	107	103	93	80	71	55	107
86	61	60	80	82	91	93	97	104	82	79	65	55	104
87	74	67	67	91	89	91	105	97	93	87	69	68	105
88	65	70	73	88	94	108	105	108	94	81	71	68	108
89	70	56	75	89	83	101	106	99	92	79	74	57	106
90	70	65	67	82	80	98	103	100	98	86	73	66	103
91	53	64											64*
.....													
GREATEST	74	72	82	91	97	108	111	108	103	94	77	74	111
.....													
TOTAL OBS	1508	1411	1519	1499	1549	1478	1511	1519	1470	1519	1468	1517	17968
.....													

THE GREATEST VALUE OF 111 OCCURRED ON 07/06/73

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

MONTHLY MINIMUM TEMPERATURES IN FAHRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 3902-4506,4804-9102  
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
39		-23	6	14	34	40	55	44	32	27	19	3	-23*
40	-17	0	5	7	34	43	56	47	37	30	-3	-7	-17
41	-5	1	4	24	38	43	50	50	28	18	1	-9	-9
42	-20	-11	16	26	30	37	47	47	19	15	10	2	-20
43	-23*	0	-11	19	26	37*	50*	50	35	24	12	-2	-23*
44	-2	-16	-1	26	26	38	49	48	30	29	3	-6	-16
45	-12	-9	-9	13	23	40							-12*
48				21	32	44	53	51	42	19	15	2	2*
49	-25	-11	-3	20	35	45	54	48	32	22	15	-2	-25
50	-24	-4	-14	13	21	42	45	48	32	28	0	-7	-24
51	-19	-11	-10	16	35	31	48	49	27	14	2	-15	-19
52	-16	1	-2	21	32	49	48	50	41	21	2	11	-16
53	-8	-2	5	19	23	44	53	51	36	27	17	4	-8
54	-15	11	-1	13	20	34	54	54	35	21	15	8	-15
55	-2	-6	-6	25	39	43	56	50	33	28	-7	-8	-8
56	-6	-10	-7	15	29	49	54	48	39	27	12	-8	-10
57	-20	-8	0	12	38	49	55	49	31	20	18	8	-20
58	13	-4	13	24	39	37	50	48	32	29	5	-8	-8
59	-15	-4	17	17	32	43	42	52	29	21	-14	9	-15
60	-6	-8	-11	25	34	45	55	48	36	18	7	-3	-11
61	-8	7	21	21	32	48	55	55	27	24	13	-8	-8
62	-14	-18	-18	21	35	41	50	44	32	21	19	-4	-18
63	-23	-10	12	25	26	50	52	50	38	22	9	-14	-23
64	-10	-8	0	16	35	38	54	41	30	26	-3	-22	-22
65	-4	-13	-10	19	33	45	53	46	28	31	14	-2	-13
66	-22	-12	3	6	29	41	56	44	37	25	2	1	-22
67	-2	-5	-1	19	24	42	47	49	28	22	7	-18	-18
68	-19	-3	5	10	27	43	47	44	36	20	12	-21	-21
69	-15	3	-1	24	35	33	51	54	42	15	12	3	-15
70	-13	8	6	19	33	43	52	53	33	18	4	-11	-13

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

MONTHLY MINIMUM TEMPERATURES IN FAHRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 3902-4506,4804-9102  
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
71	-9	-20	8	25	34	48	45	50	33	17	11	-2	-20
72	-21	-7	2	20	33	38	45	50	25	13	16	-19	-21
73	-13	-3	22	16	32	44	51	56	34	26	3	-13	-13
74	-17	0	2	21	35	40	53	48	30	28	6	7	-17
75	-7	-16	3	5	36	43	52	48	33	23	-4	-7	-16
76	-16	-7	-6	27	23	40	53	47	33	17	-10	-4	-16
77	-14	10	15	21	38	51	51	47	42	27	-10	-17	-17
78	-11	-10	-3	29	34	36	52	40	38	27	2	-12	-12
79	-21	-18	7	15	23	39	51	47	33	27	8	-14	-21
80	-16	-5	-5	24	28	47	53	49	37	22	18	0	-16
81	11	-11	18	29	35	44	52	47	40	15	15	4	-11
82	-17	-13	-1	11	32	38	51	48	34	24	8	5	-17
83	14	8	15	20	27	39	48	59	28	31	6	-24	-24
84	-8	8	6	22	28	37	49	47	26	15	8	-10	-10
85	-14	-11	4	18	38	37	52	47	25	25	-9	-10	-14
86	13	-7	18	16	34	45	43	53	40	25	-3	4	-7
87	5	17	12	25	40	42	46	45	39	24	22	3	3
88	-14	-9	-1	22	37	49	53	45	41	15	14	-5	-14
89	-5	-23	-10	19	26	39	55	46	30	18	6	-25	-25
90	6	1	6	14	24	47	49	53	33	24	9	-29	-29
91	-16	3											-16*
LEAST	-25	-23	-18	5	20	31	42	40	19	13	-14	-29	-29
TOTAL OBS	1508	1411	1519	1499	1549	1478	1511	1519	1470	1519	1468	1517	17968

THE LEAST VALUE OF -29 OCCURRED ON 12/29/90

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH



OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

MONTHLY MEAN TEMPERATURES IN FAHRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 3902-4506,4804-9102  
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
39		16	35	46	62	64	78	71	66	49	43	36	52*
40	15	26	33	40	58	68	77	72	67	56	31	31	48
41	26	27	31	45	61	65	73	72	59	47	39	30	48
42	27	22	35	50	51	62	72	71	58	50	36	28	47
43	9*	34	27	52	53	53*	76*	75	60	52	36	30	47*
44	28	22	23	44	60	62	71	71	61	53	33	26	46
45	27	25	37	42	52	56							40*
48				50	57	64	72	73	67	52	35	23	55*
49	8	18	31	51	59	66	76	76	61	48	46	23	47
50	9	29	25	39	52	65	68	69	60	54	33	29	44
51	22	29	25	41	57	58	72	70	57	47	34	19	44
52	24	28	26	51	57	70	72	73	68	51	36	32	49
53	33	28	38	39	53	67	73	73	64	57	43	32	50
54	21	43	28	46	54	64	79	73	64	48	45	34	50
55	26	21	30	50	60	63	78	77	63	54	26	23	48
56	24	26	36	40	58	74	73	70	64	55	35	33	49
57	12	29	34	41	54	63	76	71	60	48	37	37	47
58	33	23	31	44	62	63	67	75	65	54	38	28	49
59	21	22	38	44	54	70	74	76	59	45	29	35	47
60	24	19	28	47	57	66	77	73	64	53	38	28	48
61	29	34	40	42	56	72	73	78	56	50	35	24	49
62	21	24	29	50	58	66	70	71	61	53	40	31	48
63	13	31	40	46	57	67	74	74	67	59	40	23	49
64	29	26	28	46	57	63	75	68	58	51	34	21	46
65	26	26	21	46	56	65	72	70	52	54	37	32	47
66	12	18	36	39	56	67	78	67	63	51	36	29	46
67	29	29	37	45	50	61	71	71	63	50	35	22	47
68	23	27	40	42	49	63	73	67	60	51	35	19	46
69	16	27	28	51	58	60	72	76	68	43	42	32	48
70	20	33	29	41	56	67	74	75	60	44	34	22	46

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

MONTHLY MEAN TEMPERATURES IN FAHRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: +07

PERIOD OF RECORD: 3902-4506,4804-9102  
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
71	17	23	33	47	55	68	71	76	59	48	37	25	47
72	18	25	39	45	56	67	68	72	62	47	34	20	46
73	28	30	39	44	55	67	73	77	58	52	32	26	48
74	24	33	38	47	55	69	79	69	59	54	39	31	50
75	26	18	28	41	56	64	77	73	59	50	34	30	47
76	24	34	33	47	55	65	74	74	65	46	33	28	48
77	14	35	37	49	61	71	75	68	53	51	33	20	48
78	9	13	36	46	56	65	71	71	67	51	30	19	45
79	8	15	34	43	52	65	70	68	66	51	32	33	45
80	20	26	30	48	58	68	77	70	63	50	42	33	49
81	33	30	39	52	54	65	73	71	64	48	42	28	50
82	15	23	31	41	51	59	72	69	59	48	34	30	45
83	31	37	36	40	52	62	74	78	60	49	36	10	47
84	28	35	33	42	52	62	73	76	58	48	39	22	47
85	23	24	35	51	62	62	76	70	57	49	21	26	47
86	35	26	45	45	57	69	72	73	59	53	33	32	50
87	33	34	34	54	61	68	76	68	62	50	43	32	51
88	23	26	33	48	62	78	78	75	63	51	38	30	50
89	30	15	31	46	55	64	77	73	61	49	38	20	47
90	34	30	37	45	53	66	71	74	66	47	40	16	48
91	18	35											26*
MEAN	22.5	26.6	33.1	45.5	56.0	65.3	73.8	72.3	61.7	50.4	36.1	27.0	47.6
TOTAL OBS	1508	1411	1519	1499	1549	1478	1511	1519	1470	1519	1468	1518	17969

NOTE: \*THE VALUF IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JAN

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F					TOTAL HOURS
				LE 0	LE 32	GE 65	GE 80	GE 93	
00-02	23.7	13.265	930	64	680	0	0	0	930
03-05	23.3	13.647	930	76	689	0	0	0	930
06-08	22.8	13.555	930	76	689	0	0	0	930
09-11	28.5	14.889	930	44	505	0	0	0	930
12-14	33.4	15.625	930	16	370	9	0	0	930
15-17	31.1	14.663	930	20	431	3	0	0	930
18-20	25.7	13.367	930	54	608	0	0	0	930
21-23	24.4	13.333	930	59	633	0	0	0	930
ALL HOURS	26.6	14.521	7440	409	4605	12	0	0	7440

MONTH: FEB

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F					TOTAL HOURS
				LE 0	LE 32	GE 65	GE 80	GE 93	
00-02	23.8	13.640	846	72	608	0	0	0	846
03-05	23.0	13.651	846	74	633	0	0	0	846
06-08	23.3	13.917	846	70	617	0	0	0	846
09-11	30.5	15.864	846	38	405	3	0	0	846
12-14	35.6	16.765	846	22	331	10	0	0	846
15-17	34.7	16.356	845	24	328	7	0	0	845
18-20	28.0	14.029	843	49	466	0	0	0	843
21-23	25.4	13.494	843	57	558	0	0	0	843
ALL HOURS	28.1	15.528	6761	406	3946	20	0	0	6761

E - 5 - 1 - 1

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAR

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F					TOTAL HOURS
				LE 0	LE 32	GE 65	GE 80	GE 93	
00-02	30.5	9.952	930	10	514	0	0	0	930
03-05	29.2	9.821	930	11	571	0	0	0	930
06-08	30.3	10.511	930	11	537	2	0	0	930
09-11	37.7	13.205	930	5	305	17	0	0	930
12-14	42.1	14.149	930	3	212	37	1	0	930
15-17	42.1	13.969	930	1	215	36	1	0	930
18-20	36.2	11.658	930	1	326	8	0	0	930
21-23	32.4	10.340	930	5	449	1	0	0	930
ALL HOURS	35.1	12.772	7440	47	3129	101	2	0	7440

MONTH: APR

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F					TOTAL HOURS
				LE 0	LE 32	GE 65	GE 80	GE 93	
00-02	39.7	9.845	900	0	211	3	0	0	900
03-05	38.0	9.525	900	0	264	6	0	0	900
06-08	42.0	11.193	900	0	174	33	0	0	900
09-11	50.5	13.271	900	0	74	140	10	0	900
12-14	54.8	14.404	900	0	56	230	42	0	900
15-17	54.9	14.596	900	0	62	242	42	0	900
18-20	48.4	12.493	900	0	90	105	4	0	900
21-23	42.7	10.606	900	0	167	26	0	0	900
ALL HOURS	46.4	13.661	7200	0	1098	785	98	0	7200

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625      STATION NAME: ELLSWORTH AFB/RAPID CITY SD      PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7      MONTH: MAY

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F					TOTAL HOURS
				LE 0	LE 32	GE 65	GE 80	GE 93	
00-02	49.1	8.193	930	0	22	30	0	0	930
03-05	47.4	7.781	930	0	27	12	0	0	930
06-08	53.0	8.990	930	0	6	103	2	0	930
09-11	60.0	10.601	930	0	0	306	42	0	930
12-14	63.8	11.697	930	0	0	430	95	0	930
15-17	63.9	11.610	930	0	1	433	94	1	930
18-20	58.2	10.057	930	0	3	261	14	0	930
21-23	52.0	8.265	930	0	3	61	0	0	930
ALL HOURS	55.9	11.466	7440	0	62	1636	247	1	7440

MONTH: JUN

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F					TOTAL HOURS
				LE 0	LE 32	GE 65	GE 80	GE 93	
00-02	57.8	8.064	900	0	0	177	6	0	900
03-05	56.0	7.843	900	0	0	123	6	0	900
06-08	62.5	8.872	900	0	0	349	27	2	900
09-11	70.0	10.663	900	0	0	612	173	23	900
12-14	74.1	11.617	900	0	0	716	277	56	900
15-17	74.6	11.654	900	0	0	714	299	61	900
18-20	68.9	10.313	900	0	0	572	147	12	900
21-23	61.5	8.519	900	0	0	321	22	0	900
ALL HOURS	65.7	11.912	7200	0	0	3584	957	154	7200

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JUL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F					TOTAL HOURS
				LE 0	LE 32	GE 65	GE 80	GE 93	
00-02	65.6	6.475	929	0	0	507	13	0	929
03-05	63.2	6.156	930	0	0	387	5	0	930
06-08	69.5	7.306	930	0	0	687	85	0	930
09-11	78.7	8.751	930	0	0	881	413	55	930
12-14	83.6	9.602	929	0	0	906	635	169	929
15-17	84.1	9.798	930	0	0	901	639	175	930
18-20	77.5	9.185	930	0	0	864	383	44	930
21-23	69.5	7.292	930	0	0	702	90	0	930
ALL HOURS	74.0	11.126	7438	0	0	5835	2263	443	7438

MONTH: AUG

00-02	64.1	6.066	930	0	0	438	5	0	930
03-05	61.9	6.083	930	0	0	313	4	0	930
06-08	66.8	7.314	930	0	0	586	41	0	930
09-11	77.1	8.436	930	0	0	855	383	18	930
12-14	82.3	8.702	930	0	0	897	609	106	930
15-17	82.7	8.632	930	0	0	905	626	113	930
18-20	75.2	7.957	930	0	0	838	268	11	930
21-23	67.4	6.442	930	0	0	637	25	0	930
ALL HOURS	72.2	10.738	7440	0	0	5469	1961	248	7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DRY BULE TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: SEP

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F					TOTAL HOURS
				LE 0	LE 32	GE 65	GE 80	GE 93	
00-02	53.6	9.045	900	0	25	102	0	0	900
03-05	51.8	8.705	900	0	27	44	0	0	900
06-08	55.3	10.248	900	0	21	162	8	0	900
09-11	65.2	12.364	900	0	6	474	118	3	900
12-14	70.3	13.349	900	0	0	616	238	26	900
15-17	70.2	13.452	900	0	0	610	247	21	900
18-20	62.0	11.140	900	0	9	392	32	0	900
21-23	56.0	9.716	900	0	27	164	2	0	900
ALL HOURS	60.5	13.085	7200	0	115	2564	645	50	7200

MONTH: OCT

00-02	43.2	8.665	930	0	110	8	0	0	930
03-05	41.9	8.594	930	0	133	8	0	0	930
06-08	43.5	9.180	930	0	116	12	0	0	930
09-11	53.1	11.180	930	0	26	156	5	0	930
12-14	58.0	12.405	930	0	16	320	26	0	930
15-17	56.2	12.079	930	0	21	261	14	0	930
18-20	47.9	9.559	930	0	48	26	0	0	930
21-23	44.5	8.864	930	0	81	5	0	0	930
ALL HOURS	48.5	11.821	7440	0	551	796	45	0	7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: NOV

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F					TOTAL HOURS
				LE 0	LE 32	GE 65	GE 80	GE 93	
00-02	31.9	11.718	900	12	454	2	0	0	900
03-05	31.0	11.887	900	16	470	0	0	0	900
06-08	31.1	11.906	900	15	469	1	0	0	900
09-11	38.8	13.832	900	2	270	15	0	0	900
12-14	43.5	15.046	900	0	206	57	0	0	900
15-17	40.4	14.298	900	3	233	26	0	0	900
18-20	34.5	12.305	900	7	350	3	0	0	900
21-23	32.6	11.821	900	14	421	1	0	0	900
ALL HOURS	35.5	13.645	7200	69	2873	105	0	0	7200

MONTH: DEC

00-02	21.9	14.799	930	92	714	0	0	0	930
03-05	21.4	14.958	930	98	716	0	0	0	930
06-08	21.1	14.599	930	96	751	0	0	0	930
09-11	26.7	16.304	930	80	559	2	0	0	930
12-14	30.8	17.261	930	56	457	6	0	0	930
15-17	27.6	16.418	930	68	521	0	0	0	930
18-20	23.4	15.358	930	81	642	0	0	0	930
21-23	22.2	14.954	930	89	701	0	0	0	930
ALL HOURS	24.4	15.968	7440	660	5061	8	0	0	7440



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625      STATION NAME: ELLSWORTH AFB/RAPID CITY SD      PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7      MONTH: ALL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F					TOTAL HOURS
				LE 0	LE 32	GE 65	GE 80	GE 93	
00-02	42.2	18.436	10955	250	3338	1267	24	0	10955
03-05	40.8	17.924	10956	275	3530	893	15	0	10956
06-08	43.5	20.215	10956	268	3380	1935	163	2	10956
09-11	51.5	22.119	10956	169	2150	3461	1144	99	10956
12-14	56.2	22.739	10955	97	1648	4234	1923	357	10955
15-17	55.3	23.389	10955	116	1812	4138	1962	371	10955
18-20	48.9	21.972	10953	192	2542	3069	848	67	10953
21-23	44.3	19.445	10953	224	3040	1918	139	0	10953
ALL HOURS	47.8	21.611	87639	1591	21440	20915	6218	896	87639

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JAN

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F					TOTAL HOURS
				LE 32	GE 50	GE 67	GE 73	GE 80	
00-02	20.6	11.532	930	811	0	0	0	0	930
03-05	20.2	11.832	930	811	0	0	0	0	930
06-08	19.8	11.823	930	834	0	0	0	0	930
09-11	24.0	12.212	930	684	0	0	0	0	930
12-14	27.4	12.193	930	551	1	0	0	0	930
15-17	26.0	11.819	928	617	0	0	0	0	928
18-20	22.3	11.615	928	765	0	0	0	0	928
21-23	21.2	11.607	930	801	0	0	0	0	930
ALL HOURS	22.7	12.137	7436	5874	1	0	0	0	7436

MONTH: FEB

00-02	21.0	12.252	846	741	0	0	0	0	846
03-05	20.3	12.296	846	745	0	0	0	0	846
06-08	20.5	12.426	846	731	0	0	0	0	846
09-11	25.6	12.980	845	546	0	0	0	0	845
12-14	28.9	13.026	846	443	3	0	0	0	846
15-17	28.4	12.910	845	455	1	0	0	0	845
18-20	24.2	12.180	843	622	0	0	0	0	843
21-23	22.4	12.063	843	698	0	0	0	0	843
ALL HOURS	23.9	12.908	6760	4981	4	0	0	0	6760

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: MAR

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F					TOTAL HOURS
				LE 32	GE 50	GE 67	GE 73	GE 80	
00-02	27.2	8.542	930	690	0	0	0	0	930
03-05	26.2	8.470	930	729	0	0	0	0	930
06-08	27.0	8.813	930	703	2	0	0	0	930
09-11	32.0	9.809	930	452	19	0	0	0	930
12-14	34.7	9.888	930	337	41	0	0	0	930
15-17	34.7	9.748	930	335	36	0	0	0	930
18-20	31.3	9.067	930	490	8	0	0	0	930
21-23	28.8	8.614	930	619	1	0	0	0	930
ALL HOURS	30.2	9.698	7440	4355	107	0	0	0	7440

MONTH: APR

00-02	34.6	7.825	899	367	26	0	0	0	899
03-05	33.4	7.637	900	414	15	0	0	0	900
06-08	36.2	8.360	900	308	58	0	0	0	900
09-11	41.0	8.625	900	161	149	0	0	0	900
12-14	43.1	8.648	900	109	229	0	0	0	900
15-17	43.1	8.757	900	112	227	0	0	0	900
18-20	39.9	8.368	897	188	123	0	0	0	897
21-23	36.6	7.998	900	305	50	0	0	0	900
ALL HOURS	38.5	9.017	7196	1964	877	0	0	0	7196

E - 5 - 2 - 2

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST IS UTC: + 7 MONTH: MAY

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F					TOTAL HOURS
				LE 32	GE 50	GE 67	GE 73	GE 80	
00-02	44.4	7.068	930	53	233	0	0	0	930
03-05	43.2	6.954	930	69	174	0	0	0	930
06-08	47.0	7.111	930	22	346	0	0	0	930
09-11	50.6	7.433	930	5	490	3	0	0	930
12-14	52.2	7.278	930	3	579	10	0	0	930
15-17	52.4	7.162	930	1	580	4	0	0	930
18-20	49.9	7.029	930	7	478	0	0	0	930
21-23	46.5	6.747	930	28	335	0	0	0	930
ALL HOURS	48.3	7.803	7440	188	3215	17	0	0	7440

MONTH: JUN

00-02	52.2	6.320	900	0	591	3	0	0	900
03-05	50.9	6.350	900	0	541	0	0	0	900
06-08	55.0	6.199	900	0	719	12	0	0	900
09-11	58.3	6.599	900	0	807	109	2	0	900
12-14	59.9	6.552	900	0	846	179	3	0	900
15-17	60.1	6.606	900	0	851	181	9	0	900
18-20	58.1	6.669	900	0	798	104	8	0	900
21-23	54.5	6.364	900	0	680	17	0	0	900
ALL HOURS	56.1	7.239	7200	0	5833	605	22	0	7200

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JUL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F					TOTAL HOURS
				LE 32	GE 50	GE 67	GE 73	GE 80	
00-02	57.9	4.567	929	0	887	15	0	0	929
03-05	56.6	4.726	930	0	858	10	0	0	930
06-08	60.1	4.551	930	0	918	72	0	0	930
09-11	63.7	4.638	930	0	928	263	18	0	930
12-14	65.0	4.325	929	0	929	363	29	0	929
15-17	64.9	4.200	930	0	930	339	23	0	930
18-20	62.8	4.318	930	0	928	187	7	0	930
21-23	59.7	4.521	930	0	913	59	0	0	930
ALL HOURS	61.3	5.405	7438	0	7291	1308	77	0	7438

MONTH: AUG

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F					TOTAL HOURS
				LE 32	GE 50	GE 67	GE 73	GE 80	
00-02	57.1	5.432	930	0	839	22	0	0	930
03-05	55.8	5.518	930	0	817	7	0	0	930
06-08	58.5	5.551	930	0	860	57	0	0	930
09-11	62.9	5.303	930	0	922	240	19	0	930
12-14	64.2	4.760	930	0	929	308	23	0	930
15-17	63.9	4.546	930	0	930	246	15	0	930
18-20	61.4	4.933	929	0	913	138	3	0	929
21-23	58.5	5.301	928	0	870	35	0	0	928
ALL HOURS	60.3	5.951	7437	0	7080	1053	60	0	7437

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: SEP

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F					TOTAL HOURS
				LE 32	GE 50	GE 67	GE 73	GE 80	
00-02	47.1	7.326	900	46	359	0	0	0	900
03-05	46.0	7.288	900	49	301	0	0	0	900
06-08	48.1	7.497	900	38	418	0	0	0	900
09-11	52.9	7.464	899	12	633	19	0	0	899
12-14	54.7	7.397	900	12	714	22	0	0	900
15-17	54.5	7.409	900	10	708	20	0	0	900
18-20	51.2	7.431	900	30	573	7	0	0	900
21-23	48.3	7.407	900	46	408	4	0	0	900
ALL HOURS	50.4	8.085	7199	243	4114	72	0	0	7199

MONTH: OCT

00-02	38.0	7.025	930	204	41	0	0	0	930
03-05	37.1	7.053	930	243	21	0	0	0	930
06-08	38.2	7.210	930	222	48	0	0	0	930
09-11	43.7	7.282	930	77	221	0	0	0	930
12-14	45.9	7.533	929	51	340	0	0	0	929
15-17	45.0	7.536	930	60	299	0	0	0	930
18-20	40.9	7.191	930	113	102	0	0	0	930
21-23	38.9	7.130	930	162	59	0	0	0	930
ALL HOURS	41.0	7.969	7439	1132	1131	0	0	0	7439

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: NOV

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F					TOTAL HOURS
				LE 32	GE 50	GE 67	GE 73	GE 80	
00-02	27.9	9.977	900	574	2	0	0	0	900
03-05	27.3	10.176	900	610	0	0	0	0	900
06-08	27.3	10.197	900	610	0	0	0	0	900
09-11	32.5	10.640	900	391	18	0	0	0	900
12-14	35.2	10.849	900	312	53	0	0	0	900
15-17	33.4	10.807	900	370	32	0	0	0	900
18-20	29.8	10.177	900	521	4	0	0	0	900
21-23	28.5	10.009	900	576	0	0	0	0	900
ALL HOURS	30.2	10.742	7200	3964	109	0	0	0	7200

MONTH: DEC

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F					TOTAL HOURS
				LE 32	GE 50	GE 67	GE 73	GE 80	
00-02	18.9	13.051	930	821	0	0	0	0	930
03-05	18.4	13.199	930	838	0	0	0	0	930
06-08	18.2	12.929	930	851	0	0	0	0	930
09-11	22.4	13.457	930	717	0	0	0	0	930
12-14	25.1	13.688	930	606	0	0	0	0	930
15-17	23.0	13.599	930	685	0	0	0	0	930
18-20	20.0	13.407	930	797	0	0	0	0	930
21-23	19.1	13.163	930	822	0	0	0	0	930
ALL HOURS	20.6	13.513	7440	6137	0	0	0	0	7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625      STATION NAME: ELLSWORTH AFB/RAPID CITY SD      PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7      MONTH: ALL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F					TOTAL HOURS
				LE 32	GE 50	GE 67	GE 73	GE 80	
00-02	37.3	16.325	10954	4307	2978	40	0	0	10954
03-05	36.4	16.130	10956	4508	2727	17	0	0	10956
06-08	38.1	17.360	10956	4319	3369	141	0	0	10956
09-11	42.6	17.269	10954	3045	4187	634	39	0	10954
12-14	44.8	16.732	10954	2424	4664	882	55	0	10954
15-17	44.2	17.117	10953	2645	4594	790	47	0	10953
18-20	41.1	17.387	10947	3533	3927	436	18	0	10947
21-23	38.7	16.668	10951	4057	3316	115	0	0	10951
ALL HOURS	40.4	17.147	87625	28838	29762	3055	159	0	87625

E - 5 - 2 - 7



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JAN

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F				TOTAL HOURS
				LE 27	GE 37	LE 55	GE 65	
00-02	12.4	12.369	930	862	1	930	0	930
03-05	11.9	12.478	930	883	1	930	0	930
06-08	11.5	12.590	930	878	0	930	0	930
09-11	14.3	12.308	930	837	1	930	0	930
12-14	15.6	12.072	930	815	11	930	0	930
15-17	15.4	12.138	928	822	2	928	0	928
18-20	13.9	12.413	928	843	3	928	0	928
21-23	13.0	12.536	930	854	0	930	0	930
ALL HOURS	13.5	12.461	7436	6794	19	7436	0	7436

MONTH: FEB

00-02	12.3	13.542	846	785	0	846	0	846
03-05	12.6	13.743	846	792	1	846	0	846
06-08	12.6	13.802	846	783	0	846	0	846
09-11	15.5	13.056	845	728	2	845	0	846
12-14	16.5	12.564	846	713	7	846	0	846
15-17	16.7	12.645	845	700	5	845	0	846
18-20	15.6	13.069	843	726	1	843	0	846
21-23	14.7	13.144	843	768	0	843	0	846
ALL HOURS	14.7	13.309	6760	5995	16	6760	0	6760

E - 5 - 3 - 1

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: MAR

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F				TOTAL HOURS
				LE 27	GE 37	LE 55	GE 65	
00-02	20.6	9.199	930	721	17	930	0	930
03-05	19.8	9.037	930	755	5	930	0	930
06-08	20.3	9.045	930	732	7	930	0	930
09-11	22.9	8.806	930	643	33	930	0	930
12-14	23.6	8.658	930	618	48	930	0	930
15-17	23.5	8.894	930	608	47	930	0	930
18-20	22.9	8.940	930	631	46	930	0	930
21-23	21.8	9.003	930	667	26	930	0	930
ALL HOURS	21.9	9.080	7440	5375	229	7440	0	7440

MONTH: APR

00-02	26.7	8.740	899	486	120	899	0	900
03-05	25.8	8.567	900	521	102	900	0	900
06-08	27.9	8.688	900	435	159	900	0	900
09-11	29.1	8.581	900	370	178	900	0	900
12-14	28.9	8.455	900	390	178	900	0	900
15-17	28.7	8.723	900	413	176	900	0	900
18-20	28.7	8.572	897	400	159	897	0	900
21-23	27.9	8.550	900	433	145	900	0	900
ALL HOURS	28.0	8.698	7196	3448	1217	7196	0	7196

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: MAY

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F				TOTAL HOURS
				LE 27	GE 37	LE 55	GE 65	
00-02	37.1	8.418	930	97	584	920	0	930
03-05	38.2	8.527	930	107	541	918	0	930
06-08	40.7	8.685	930	71	635	908	0	930
09-11	41.6	9.127	930	65	668	886	0	930
12-14	41.6	8.704	930	52	672	897	0	930
15-17	41.8	8.664	930	51	678	888	0	930
18-20	42.0	8.442	930	51	707	900	0	930
21-23	40.7	8.079	930	60	657	919	0	930
ALL HOURS	40.7	8.717	7440	554	5142	7236	0	7440

MONTH: JUN

00-02	47.2	7.512	900	10	819	780	3	900
03-05	46.4	7.567	900	14	804	805	1	900
06-08	48.8	7.480	900	5	842	712	1	900
09-11	49.4	8.196	900	8	836	667	14	900
12-14	49.5	8.252	900	4	841	660	11	900
15-17	49.4	8.563	900	4	838	679	31	900
18-20	49.7	8.541	900	8	843	661	33	900
21-23	48.7	7.661	900	6	845	712	9	900
ALL HOURS	48.6	8.087	7200	59	6668	5676	103	7200

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JUL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F				TOTAL HOURS
				LE 27	GE 37	LE 55	GE 65	
00-02	51.9	6.886	929	0	900	629	17	929
03-05	51.3	6.865	930	2	903	664	11	930
06-08	53.3	6.652	930	3	922	559	30	930
09-11	53.8	7.068	930	3	912	500	30	930
12-14	52.7	7.347	929	2	908	573	35	929
15-17	52.2	7.512	930	0	912	601	38	930
18-20	52.7	7.537	930	0	912	560	37	930
21-23	52.3	7.217	930	0	902	588	24	930
ALL HOURS	52.5	7.197	7438	10	7271	4674	222	7438

MONTH: AUG

00-02	51.4	8.087	930	9	874	622	21	930
03-05	50.7	7.857	930	7	874	661	15	930
06-08	52.2	7.733	930	3	893	595	30	930
09-11	53.2	7.862	930	2	901	548	50	930
12-14	52.0	7.906	930	0	898	614	48	930
15-17	51.0	8.429	930	3	882	636	45	930
18-20	51.4	8.592	929	13	876	612	44	930
21-23	51.5	8.386	928	13	875	599	28	930
ALL HOURS	51.7	8.174	7437	50	7073	4887	281	7437

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: SEP

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F				TOTAL HOURS
				LE 27	GE 37	LE 55	GE 65	
00-02	40.3	8.835	900	61	579	866	1	900
03-05	39.8	8.817	900	60	568	873	0	900
06-08	41.0	8.610	900	50	615	859	0	900
09-11	41.8	8.905	899	49	627	840	0	899
12-14	41.1	8.774	900	46	625	848	0	900
15-17	40.6	8.893	900	52	596	853	0	900
18-20	40.9	8.876	900	55	631	850	0	900
21-23	40.5	8.860	900	69	607	860	0	900
ALL HOURS	40.8	8.859	7199	442	4848	6849	1	7199

MONTH: OCT

00-02	30.8	8.270	930	319	225	930	0	929
03-05	30.2	8.205	930	350	203	930	0	929
06-08	30.8	8.203	930	331	226	930	0	929
09-11	32.5	8.568	930	282	301	930	0	929
12-14	32.0	8.952	929	307	320	929	0	929
15-17	31.9	8.803	930	298	297	930	0	929
18-20	31.8	8.693	930	281	287	930	0	929
21-23	31.2	8.627	930	314	251	930	0	929
ALL HOURS	31.4	8.606	7439	2482	2110	7439	0	7439

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625      STATION NAME: ELLSWORTH AFB/RAPID CITY SD      PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7      MONTH: NOV

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F				TOTAL HOURS
				LE 27	GE 37	LE 55	GE 65	
00-02	20.0	11.076	900	676	35	900	0	900
03-05	19.4	11.289	900	710	26	900	0	900
06-08	19.6	11.355	900	688	30	900	0	900
09-11	22.1	10.928	900	616	54	900	0	900
12-14	22.4	10.806	900	602	54	900	0	900
15-17	22.0	10.893	900	613	41	900	0	900
18-20	21.1	11.025	900	643	35	900	0	900
21-23	20.4	11.062	900	675	30	900	0	900
ALL HOURS	20.9	11.131	7200	5223	305	7200	0	7200

MONTH: DEC

00-02	10.6	12.915	930	871	3	930	0	930
03-05	10.2	13.127	930	882	2	930	0	930
06-08	10.0	12.988	930	897	3	930	0	930
09-11	12.5	12.815	930	866	3	930	0	930
12-14	13.6	12.545	930	830	7	930	0	930
15-17	12.9	12.895	930	840	4	930	0	930
18-20	11.6	13.234	930	861	1	930	0	930
21-23	10.8	13.213	930	871	2	930	0	930
ALL HOURS	11.5	13.037	7440	6918	25	7440	0	7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: ALL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F				TOTAL HOURS
				LE 27	GE 37	LE 55	GE 65	
00-02	30.5	17.698	10954	4897	4157	10182	42	10954
03-05	29.8	17.680	10956	5083	4030	10287	27	10956
06-08	30.8	18.371	10956	4876	4332	9999	61	10956
09-11	32.5	17.668	10954	4469	4516	9806	94	10954
12-14	32.6	17.012	10954	4379	4569	9957	94	10954
15-17	32.3	17.034	10953	4404	4478	10020	114	10953
18-20	32.0	17.636	10947	4512	4501	9941	114	10947
21-23	31.2	17.701	10951	4730	4340	10041	61	10951
ALL HOURS	31.4	17.630	87625	37350	34923	80233	607	87625

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: JAN

HOURS LST	10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	99.8	98.6	91.3	73.2	49.2	31.6	15.3	5.8	60.9	930
03-05	100.0	99.7	98.7	91.3	71.6	48.3	31.4	17.3	6.1	60.9	930
06-08	100.0	99.9	98.3	92.0	71.0	48.3	31.5	17.2	5.5	61.0	930
09-11	100.0	99.9	94.4	79.5	56.8	37.1	25.1	12.5	4.0	55.4	930
12-14	100.0	97.5	85.5	63.7	41.8	29.0	16.6	8.4	2.9	49.0	930
15-17	100.0	98.8	91.4	73.2	53.1	32.8	19.5	8.6	3.4	52.5	928
18-20	100.0	99.9	97.6	90.5	69.6	48.5	30.7	12.4	5.0	60.0	928
21-23	100.0	99.7	97.5	92.0	71.2	48.6	33.1	14.9	5.6	60.9	930
ALL HOURS	100.0	99.4	95.3	84.2	63.5	42.7	27.4	13.3	4.8	57.6	7436

MONTH: FEB

00-02	100.0	100.0	99.6	95.3	79.9	57.2	35.1	10.5	1.7	62.5	846
03-05	100.0	99.9	99.2	94.2	79.0	58.5	36.1	10.8	1.9	62.5	846
06-08	100.0	99.9	99.1	92.6	77.4	59.7	34.4	12.2	2.2	62.1	846
09-11	100.0	98.6	91.8	78.1	59.5	39.2	21.5	7.2	1.1	54.1	845
12-14	100.0	95.7	81.9	62.6	42.3	25.4	11.0	3.5	.8	46.8	846
15-17	100.0	96.8	84.7	68.8	44.6	28.4	13.3	4.6	.8	48.7	845
18-20	100.0	100.0	98.2	91.3	72.6	45.4	23.8	8.1	1.9	58.6	843
21-23	100.0	100.0	99.8	95.8	79.5	53.4	31.3	11.5	2.7	62.0	843
ALL HOURS	100.0	98.9	94.3	84.8	66.8	45.9	25.8	8.6	1.6	57.2	6760



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAR

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO										TOTAL OBS
	10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	
00-02	100.0	99.9	99.2	95.4	84.4	66.5	47.1	19.7	3.9	66.1	930
03-05	100.0	100.0	99.6	95.7	86.6	69.7	48.3	22.7	3.5	67.1	930
06-08	100.0	100.0	99.4	95.3	84.1	66.6	46.5	20.4	3.2	65.9	930
09-11	100.0	99.1	93.1	80.0	62.3	44.9	29.2	10.9	3.1	56.8	930
12-14	100.0	97.5	82.9	66.8	49.6	33.0	19.6	7.5	1.6	50.3	930
15-17	100.0	95.6	82.7	67.5	51.1	34.1	19.0	7.6	1.1	50.4	930
18-20	100.0	99.7	94.6	84.6	71.9	53.3	31.1	12.0	1.9	59.4	930
21-23	100.0	99.8	98.0	93.7	80.6	65.1	42.8	17.4	3.2	64.6	930
ALL HOURS	100.0	99.0	93.7	84.9	71.3	54.1	35.4	14.8	2.7	60.1	7440

MONTH: APR

00-02	100.0	100.0	96.9	88.2	71.2	52.9	33.4	15.2	3.9	60.6	899
03-05	100.0	100.0	98.0	89.3	75.8	55.1	35.7	15.9	3.3	61.9	900
06-08	100.0	100.0	96.6	83.8	65.1	47.2	31.7	15.0	3.3	58.9	900
09-11	100.0	96.3	78.7	57.1	38.4	26.4	17.7	9.2	1.4	46.9	900
12-14	100.0	88.6	64.0	41.3	29.7	21.7	12.9	7.6	1.7	41.3	900
15-17	100.0	88.2	61.9	39.0	30.8	23.7	14.1	8.3	1.4	41.1	900
18-20	100.0	97.4	82.3	60.9	43.6	32.0	20.6	12.4	1.9	49.6	897
21-23	100.0	100.0	96.1	80.9	61.1	43.6	29.0	14.8	2.7	57.4	900
ALL HOURS	100.0	96.3	84.3	67.6	52.0	37.8	24.4	12.3	2.5	52.2	7196

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7 MONTH: MAY

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO										TOTAL OBS
	10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	
00-02	100.0	100.0	99.8	96.6	89.2	73.2	51.6	31.7	11.9	69.9	930
03-05	100.0	100.0	99.7	97.5	90.1	77.8	57.7	34.7	13.0	71.7	930
06-08	100.0	99.9	97.8	92.2	78.7	61.4	42.8	25.5	9.5	65.5	930
09-11	100.0	99.0	93.0	74.0	51.3	35.6	21.8	13.8	4.7	53.9	930
12-14	100.0	97.0	83.8	58.6	39.9	27.2	17.8	11.2	3.5	48.3	930
15-17	100.0	97.0	83.4	57.1	40.5	27.8	19.5	12.3	3.4	48.6	930
18-20	100.0	99.0	94.8	82.0	63.0	43.4	29.8	17.7	6.3	58.1	930
21-23	100.0	100.0	99.1	94.6	84.4	66.9	45.7	27.5	8.4	67.1	930
ALL HOURS	100.0	99.0	93.9	81.6	67.2	51.7	35.8	21.8	7.6	60.4	7440

MONTH: JUN

00-02	100.0	99.4	98.4	95.3	88.6	76.8	54.0	31.6	11.0	70.0	900
03-05	100.0	99.8	98.1	95.6	91.0	81.6	60.6	35.6	13.8	72.2	900
06-08	100.0	99.3	96.9	91.0	79.3	61.8	38.2	19.1	5.8	63.6	900
09-11	99.9	97.4	89.1	73.7	51.9	32.0	16.3	7.6	3.0	51.5	900
12-14	99.9	94.8	81.1	58.2	38.2	20.6	10.4	5.8	2.2	45.7	900
15-17	100.0	93.3	77.9	55.8	37.7	21.6	11.3	5.8	2.0	45.1	900
18-20	100.0	97.8	90.8	74.8	57.9	39.0	22.9	10.8	3.4	54.1	900
21-23	100.0	99.6	98.2	91.9	81.1	64.6	41.7	22.0	6.7	65.2	900
ALL HOURS	100.0	97.7	91.3	79.5	65.7	49.7	31.9	17.3	6.0	58.4	7200

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUL

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO										TOTAL OBS
	10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	
00-02	100.0	100.0	96.8	89.7	78.0	60.1	39.1	21.3	8.0	63.8	929
03-05	100.0	100.0	97.6	92.5	84.6	69.9	47.7	27.8	9.8	67.4	930
06-08	100.0	99.7	94.7	86.8	70.3	49.0	28.5	13.5	6.0	59.2	930
09-11	100.0	96.3	84.3	60.4	35.8	17.1	8.6	4.2	1.5	45.3	930
12-14	100.0	89.1	66.1	39.1	19.8	10.5	5.8	1.8	2	31.6	929
15-17	100.0	86.1	62.2	38.0	20.3	13.1	6.6	2.9	.8	37.3	930
18-20	100.0	94.1	78.3	50.3	40.3	25.8	14.6	6.6	1.1	46.3	930
21-23	100.0	99.6	92.5	81.9	65.3	46.8	28.3	13.9	4.6	57.7	930
ALL HOURS	100.0	95.6	84.1	68.3	51.8	36.5	22.4	11.5	4.0	51.8	7438

MONTH: AUG

HOURS LST	10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	100.0	97.5	92.0	81.0	61.9	44.0	23.9	8.6	65.5	930
03-05	100.0	100.0	98.3	93.7	86.6	71.9	51.9	29.4	11.5	68.8	930
06-08	100.0	99.9	97.4	89.4	73.8	54.2	34.9	17.4	5.8	61.9	930
09-11	100.0	97.7	85.1	62.4	40.2	21.8	8.4	3.0	1.1	46.3	930
12-14	100.0	92.0	68.1	39.8	20.5	8.5	3.8	2.7	1.0	38.1	930
15-17	100.0	86.8	61.6	36.8	20.8	10.8	5.1	1.9	1.1	36.8	930
18-20	100.0	96.3	80.8	60.3	40.9	25.1	13.3	5.4	2.3	47.1	929
21-23	100.0	99.7	95.7	84.6	67.5	48.8	30.7	16.5	6.6	59.6	928
ALL HOURS	100.0	96.6	85.6	69.9	53.9	38.1	24.0	12.5	4.7	53.0	7437

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: SEP

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO										TOTAL OBS
	10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	
00-02	100.0	99.8	98.0	89.7	73.9	58.6	38.9	20.7	6.8	63.1	900
03-05	100.0	99.9	98.6	92.4	78.2	63.8	43.4	24.4	7.9	65.6	900
06-08	100.0	99.6	95.9	85.1	69.6	53.8	38.3	23.3	6.4	61.8	900
09-11	100.0	94.0	78.0	56.1	39.3	28.1	16.9	9.0	2.8	47.0	899
12-14	100.0	87.4	61.3	38.8	25.8	18.7	11.0	5.8	1.9	39.4	900
15-17	99.9	84.1	60.7	37.4	25.6	17.1	11.0	7.0	2.3	39.0	900
18-20	100.0	99.1	85.1	62.9	44.3	30.1	17.8	9.4	4.1	49.6	900
21-23	100.0	100.0	96.3	83.1	66.0	48.1	30.4	15.9	5.4	59.0	900
ALL HOURS	100.0	95.5	84.2	68.2	52.8	39.8	26.0	14.4	4.7	53.1	7199

MONTH: OCT

00-02	100.0	99.8	97.3	91.1	78.8	59.8	35.9	18.5	4.8	63.0	930
03-05	100.0	99.5	97.8	92.0	82.6	60.5	38.3	20.9	5.1	64.3	930
06-08	100.0	99.4	96.9	90.8	77.7	54.9	35.7	19.2	5.2	62.6	930
09-11	100.0	95.3	81.8	63.4	44.2	29.7	18.2	9.4	3.3	49.0	930
12-14	100.0	88.9	66.0	43.7	30.5	19.9	11.3	6.0	1.9	41.4	929
15-17	100.0	92.3	70.6	50.0	32.9	22.4	12.8	7.4	2.9	43.5	930
18-20	100.0	99.2	92.7	77.2	58.3	42.0	26.0	13.3	4.5	55.9	930
21-23	100.0	100.0	96.9	87.8	71.4	52.5	33.9	19.8	4.8	61.3	930
ALL HOURS	100.0	96.9	87.5	74.5	59.6	42.7	26.5	14.3	4.1	55.1	7439

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: NOV

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO										TOTAL OBS
	10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	
00-02	100.0	99.8	97.7	93.9	76.0	54.8	28.6	12.8	3.7	61.1	900
03-05	100.0	99.6	98.0	93.8	76.2	54.3	31.4	12.7	3.2	61.5	900
06-08	100.0	100.0	98.7	92.4	75.3	56.0	31.9	13.7	3.9	61.7	900
09-11	100.0	98.9	90.6	74.7	53.7	31.4	19.3	8.6	2.1	52.4	900
12-14	100.0	94.2	79.4	55.2	37.8	22.8	12.6	5.0	1.2	45.2	900
15-17	100.0	97.7	86.4	67.6	46.2	29.0	14.8	5.7	1.1	49.4	900
18-20	100.0	99.7	96.1	87.8	68.1	48.3	25.9	10.2	2.6	58.2	900
21-23	100.0	99.8	97.2	91.4	74.9	52.6	29.3	12.0	2.1	60.4	900
ALL HOURS	100.0	98.7	93.0	82.1	63.5	43.7	24.2	10.1	2.5	56.2	7200

MONTH: DEC

00-02	100.0	99.5	97.2	89.1	72.0	50.3	33.8	15.3	5.8	61.2	930
03-05	100.0	99.4	97.4	88.6	72.9	52.8	34.3	16.7	6.5	61.5	930
06-08	100.0	99.4	97.8	89.0	74.0	52.8	32.8	15.4	5.2	61.3	930
09-11	100.0	98.4	91.9	77.8	58.6	40.0	26.8	11.3	3.5	55.4	930
12-14	100.0	96.9	83.7	68.0	48.5	31.4	17.5	8.2	3.1	50.2	930
15-17	100.0	98.9	91.6	76.1	56.9	39.1	22.8	9.7	3.8	54.4	930
18-20	100.0	99.9	97.4	88.1	69.2	49.6	30.8	13.8	6.2	60.1	930
21-23	100.0	99.6	97.1	88.5	71.2	51.3	33.7	14.8	5.7	60.9	930
ALL HOURS	100.0	99.0	94.3	83.2	65.4	45.9	29.0	13.1	5.0	58.1	7440

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: ALL

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO									MEAN	TOTAL OBS
	10%	20%	30%	40%	50%	60%	70%	80%	90%		
00-02	100.0	99.8	98.1	92.3	78.9	60.3	39.5	19.8	6.4	64.0	10954
03-05	100.0	99.8	98.4	93.0	81.3	63.7	43.1	22.5	7.2	65.5	10956
06-08	100.0	99.7	97.4	90.0	74.7	55.4	35.6	17.7	5.2	62.1	10956
09-11	100.0	97.6	87.7	69.7	49.3	31.9	19.2	8.9	2.7	51.2	10954
12-14	100.0	93.3	75.3	53.0	35.3	22.4	12.5	6.1	1.9	44.5	10954
15-17	100.0	93.0	76.2	55.6	38.4	25.0	14.2	6.8	2.0	45.6	10953
18-20	100.0	98.5	90.7	76.5	58.3	40.2	24.0	11.0	3.5	54.7	10947
21-23	100.0	99.8	97.0	88.8	72.8	53.5	34.2	16.8	4.9	61.3	10951
ALL HOURS	100.0	97.7	90.1	77.4	61.1	44.1	27.8	13.7	4.2	56.1	87625

PPPPPPP	AAAAAA	RRRRRRR	TTTTTTTTT	FFFFFFFFF
PPPPPPP	AAAAAAA	RRRRRRR	TTTTTTTTT	FFFFFFFFF
PP PP	AA AA	RR RR	TT	FF
PP PP	AA AA	RR RR	TT	FF
PPPPPPP	AA AA	RRRRRRR	TT	FFFFFFF
PPPPPPP	AAAAAAAAA	RRRRRRR	TT	FFFFFFF
PP	AAAAAAAAA	RR RR	TT	FF
PP	AA AA	RR RR	TT	FF
PP	AA AA	RR RR	TT	FF
PP	AA AA	RR RR	TT	FF

PART F

PRESSURE SUMMARIES

ALL PRESSURE DATA IN PART F IS TAKEN FROM HOURLY OBSERVATIONS. IT IS SUMMARIZED:

- BY EIGHT 3-HOUR STANDARD SYNOPTIC REPORTING TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

SEA LEVEL PRESSURE.

IN MILLIBARS, TABLES GIVE MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS. THIS SUMMARY IS NOT AVAILABLE FOR METAR REPORTING SITES.

ALTIMETER SETTING.

IN INCHES OF MERCURY (HG), TABLES GIVE MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS.

STATION PRESSURE.

IN INCHES OF MERCURY (HG), TABLES GIVE MEANS, STANDARD DEVIATIONS AND TOTAL OBSERVATION COUNTS.

PRESSURE CONVERSIONS ARE: 1 MILLIBAR = 0.02953 INCHES OF MERCURY (HG).



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

SEA LEVEL PRESSURE IN MILLIBARS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7

HOURS (LST)	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
0200	MEAN	1018.3	1019.1	1015.6	1014.3	1012.7	1012.8	1013.6	1014.2	1015.5	1016.8	1015.9	1019.0	1015.6
	SD	9.247	9.320	8.961	8.247	7.252	5.712	5.680	5.572	7.803	7.831	8.964	9.434	8.241
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
0500	MEAN	1018.6	1019.3	1015.8	1014.8	1013.1	1013.3	1014.1	1014.6	1015.9	1017.2	1016.4	1019.4	1016.0
	SD	9.127	9.341	8.740	8.196	7.315	5.657	5.546	5.509	7.710	7.768	8.981	9.405	8.172
	TOT OBS	309	282	310	300	310	300	310	310	300	310	300	310	3651
0800	MEAN	1019.4	1020.3	1016.7	1015.4	1013.4	1013.8	1014.6	1015.3	1016.7	1018.0	1017.3	1020.1	1016.7
	SD	9.235	9.358	8.796	8.220	7.228	5.504	5.526	5.469	7.673	7.764	8.952	9.407	8.203
	TOT OBS	310	282	310	300	310	300	310	309	300	310	300	309	3650
1100	MEAN	1019.1	1019.9	1016.3	1014.9	1013.0	1013.5	1014.2	1014.9	1016.2	1017.4	1016.5	1019.9	1016.3
	SD	9.384	9.369	8.853	8.208	7.142	5.538	5.558	5.478	7.699	7.850	8.973	9.446	8.237
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	309	3651
1400	MEAN	1017.1	1018.1	1015.0	1013.6	1012.1	1012.6	1013.1	1013.7	1014.8	1015.9	1015.0	1018.3	1014.9
	SD	9.430	9.415	8.801	8.138	7.071	5.424	5.511	5.498	7.680	7.702	8.864	9.207	8.103
	TOT OBS	310	282	310	300	310	299	310	310	300	310	299	309	3649
1700	MEAN	1018.4	1018.9	1015.3	1013.6	1011.7	1011.9	1012.4	1013.1	1014.8	1016.6	1016.1	1019.7	1015.2
	SD	9.208	9.132	8.674	8.149	7.094	5.510	5.594	5.439	7.705	7.552	8.647	8.989	8.194
	TOT OBS	310	281	310	300	310	300	310	309	300	310	300	310	3650
2000	MEAN	1019.2	1020.0	1016.5	1014.6	1012.5	1012.4	1013.0	1014.1	1016.0	1017.5	1016.7	1020.1	1016.0
	SD	9.159	9.173	8.724	8.247	7.028	5.445	5.660	5.412	7.668	7.654	8.684	9.131	8.223
	TOT OBS	310	281	310	300	310	300	310	310	300	310	300	310	3651
2300	MEAN	1018.7	1019.4	1016.1	1014.8	1013.0	1013.2	1013.8	1014.5	1016.0	1017.2	1016.2	1019.6	1016.0
	SD	9.231	9.360	8.954	8.408	7.106	5.587	5.706	5.481	7.884	7.933	8.864	9.288	8.234
	TOT OBS	310	281	310	300	310	300	310	310	300	310	300	310	3651
ALL HOURS	MEAN	1018.6	1019.4	1015.9	1014.5	1012.7	1012.9	1013.6	1014.3	1015.7	1017.1	1016.3	1019.5	1015.9
	SD	9.277	9.333	8.830	8.248	7.174	5.579	5.636	5.520	7.752	7.780	8.889	9.306	8.219
	TOT OBS	2479	2253	2480	2400	2480	2399	2480	2478	2400	2480	2399	2477	29205

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

ALTIMETER SETTING IN INCHES  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 126625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD PERIOD OF RECORD: MAR 81 - FEB 91  
LST TO UTC: + 7

HOURS (LST)	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
0200	MEAN	29.97	30.00	29.93	29.93	29.92	29.96	30.01	30.02	30.03	30.02	29.94	29.98	29.98
	SD	.231	.232	.232	.217	.195	.156	.154	.150	.206	.207	.234	.236	.210
	TOT OBS	310	282	310	300	310	300	309	310	300	310	300	310	3651
0500	MEAN	29.96	29.99	29.92	29.94	29.93	29.97	30.02	30.03	30.03	30.02	29.94	29.97	29.98
	SD	.230	.235	.227	.218	.197	.153	.151	.149	.204	.208	.237	.238	.210
	TOT OBS	310	282	310	300	310	299	310	310	300	310	300	310	3651
0800	MEAN	29.98	30.01	29.94	29.96	29.94	29.99	30.03	30.05	30.05	30.04	29.96	29.99	30.00
	SD	.234	.237	.230	.221	.199	.152	.152	.150	.205	.210	.238	.239	.212
	TOT OBS	309	282	310	300	310	300	310	309	300	310	300	310	3650
1100	MEAN	29.99	30.01	29.94	29.95	29.93	29.98	30.03	30.04	30.04	30.03	29.96	30.00	29.99
	SD	.239	.238	.233	.221	.195	.152	.152	.149	.205	.212	.237	.238	.212
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
1400	MEAN	29.93	29.97	29.91	29.92	29.91	29.95	30.00	30.01	30.01	30.00	29.91	29.96	29.96
	SD	.239	.238	.231	.218	.193	.150	.150	.149	.204	.209	.233	.233	.210
	TOT OBS	310	282	309	300	310	300	310	310	300	310	300	310	3651
1700	MEAN	29.96	29.98	29.91	29.91	29.89	29.93	29.97	29.99	30.00	30.00	29.93	29.98	29.95
	SD	.235	.231	.227	.217	.193	.150	.153	.148	.204	.204	.228	.226	.207
	TOT OBS	310	281	310	300	310	300	310	310	300	310	300	310	3651
2000	MEAN	29.97	30.00	29.94	29.94	29.92	29.95	29.99	30.01	30.03	30.03	29.94	29.99	29.98
	SD	.233	.232	.227	.218	.191	.147	.154	.147	.203	.205	.228	.230	.207
	TOT OBS	309	281	310	300	310	300	310	310	300	310	300	310	3650
2300	MEAN	29.97	30.00	29.94	29.95	29.93	29.97	30.02	30.03	30.03	30.03	29.94	29.99	29.98
	SD	.233	.234	.233	.220	.191	.151	.154	.148	.208	.210	.230	.233	.209
	TOT OBS	310	281	310	300	310	300	310	310	300	310	300	310	3651
ALL HOURS	MEAN	29.97	30.00	29.93	29.94	29.92	29.96	30.01	30.02	30.03	30.02	29.94	29.98	29.98
	SD	.235	.235	.230	.219	.195	.152	.154	.150	.205	.208	.234	.235	.210
	TOT OBS	2478	2253	2479	2400	2480	2399	2479	2479	2400	2480	2400	2480	29207

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

STATION PRESSURE IN INCHES  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91

HOURS (LST)	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
0200	MEAN	26.58	26.61	26.54	26.55	26.54	26.57	26.62	26.63	26.63	26.63	26.56	26.59	26.59
	SD	.210	.211	.211	.197	.176	.141	.140	.136	.187	.187	.212	.215	.190
	TOT OBS	310	282	310	300	310	300	309	310	300	310	300	310	3651
0500	MEAN	26.58	26.60	26.54	26.56	26.55	26.58	26.63	26.64	26.64	26.63	26.55	26.59	26.59
	SD	.209	.213	.206	.198	.178	.139	.137	.136	.185	.189	.215	.216	.190
	TOT OBS	310	282	310	300	310	299	310	310	300	310	300	310	3651
0800	MEAN	26.59	26.62	26.56	26.57	26.56	26.60	26.64	26.66	26.66	26.65	26.57	26.60	26.61
	SD	.213	.215	.208	.201	.181	.138	.138	.135	.186	.190	.216	.217	.192
	TOT OBS	309	282	310	300	310	300	310	309	300	310	300	310	3650
1100	MEAN	26.60	26.62	26.56	26.56	26.55	26.59	26.63	26.65	26.65	26.64	26.57	26.61	26.60
	SD	.217	.217	.212	.200	.177	.138	.137	.135	.186	.193	.215	.216	.193
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
1400	MEAN	26.55	26.58	26.53	26.53	26.53	26.57	26.61	26.62	26.61	26.61	26.53	26.57	26.57
	SD	.217	.216	.209	.198	.175	.136	.136	.135	.185	.189	.211	.212	.190
	TOT OBS	310	282	309	300	310	300	310	310	300	310	300	310	3651
1700	MEAN	26.57	26.59	26.53	26.53	26.51	26.55	26.58	26.60	26.61	26.61	26.55	26.59	26.57
	SD	.213	.210	.206	.197	.175	.137	.139	.135	.185	.185	.206	.205	.188
	TOT OBS	310	281	310	300	310	300	310	310	300	310	300	310	3651
2000	MEAN	26.58	26.61	26.55	26.55	26.53	26.56	26.60	26.62	26.64	26.63	26.56	26.60	26.59
	SD	.212	.211	.206	.198	.173	.134	.140	.133	.184	.186	.207	.208	.188
	TOT OBS	309	281	310	300	310	300	310	310	300	310	300	310	3650
2300	MEAN	26.59	26.61	26.55	26.57	26.55	26.58	26.62	26.64	26.64	26.64	26.55	26.60	26.60
	SD	.208	.209	.215	.194	.173	.138	.140	.133	.192	.193	.213	.208	.190
	TOT OBS	310	279	310	300	310	300	310	310	300	310	300	312	3651
ALL HOURS	MEAN	26.58	26.60	26.54	26.55	26.54	26.58	26.62	26.63	26.63	26.63	26.56	26.59	26.59
	SD	.213	.213	.209	.198	.177	.138	.139	.136	.187	.189	.212	.212	.191
	TOT OBS	2478	2251	2479	2400	2480	2399	2479	2479	2400	2480	2400	2482	29207



PPPPPPP	AAAAAA	RRRRRRR	TTTTTTTTT	GGGGG
PPPPPPP	AAAAAAA	RRRRRRRR	TTTTTTTTT	GGGGGGG
PP PP	AA AA	RR RR	TT	GG GG
PP PP	AA AA	RR RR	TT	GG
PPPPPPP	AA AA	RRRRRRR	TT	GG
PPPPPPP	AAAAAAAAA	RRRRRRR	TT	GG GGG
PP	AAAAAAAAA	RR RR	TT	GG GGGG
PP	AA AA	RR RR	TT	GG GG
PP	AA AA	RR RR	TT	GGGGGGG
PP	AA AA	RR RR	TT	GGGGG

PART G

CROSSWIND SUMMARY

CROSSWIND SUMMARIES.

THESE TABLES ARE CREATED FROM HOURLY AND SPECIAL OBSERVATIONS (INCLUDING PEAK GUST REMARKS). THE TABLES ARE SUMMARIZED AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY MONTH (ALL YEARS AND THE HOURS 0600-2000 LST COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND THE HOURS 0600-2000 LST COMBINED).

THE TABLES GIVE PERCENT OCCURRENCE FREQUENCY (POF) OF THE "CROSS-RUNWAY WIND COMPONENT" FOR THE WIND SPEED CLASSES SPECIFIED IN THE TABLE HEADINGS. THERE ARE TWO COMPONENT CATEGORIES:

THE FIRST COMPONENT IS COMPUTED FROM THE REPORTED WIND DIRECTION AND WIND SPEED FROM HOURLY RECORD OR RECORD-SPECIAL OBSERVATIONS.

THE SECOND COMPONENT IS COMPUTED FROM THE HIGHEST REPORTED WIND SPEED AND DIRECTION FROM ALL OBSERVATIONS INCLUDING REMARKS, GUSTS, AND SPECIAL OBSERVATIONS.

OBSERVATION COUNTS INCLUDE CALM WINDS.

VARIABLE WINDS ARE CONSIDERED A DIRECT CROSSWIND IF THE SPEED EQUALS OR EXCEEDS THE SPECIFIED THRESHOLD WIND SPEED VALUE(S).

A TOTAL OBSERVATION COUNT IS INCLUDED.

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 130-310

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JAN

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.2			930	.4	.1		930	.4			930	.4			930
CATEGORY B	.9	.2		980	1.5	.3	.1	996	2.4	.3	.1	1010	2.2	.5	.1	1015

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	1.1	.1		930	1.1	.3		930	.4			930	.2			930
CATEGORY B	4.7	1.2	.2	1009	2.2	.9	.4	980	1.5	.5	.2	1008	1.1	.1		1010

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.7	.1		4650	.5	.1		7440
CATEGORY B	2.6	.7	.2	5022	2.1	.5	.1	8008

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 130-310

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: FEB

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.1			846	.5	.1		846	.2	.2		846				846
CATEGORY B	1.1			949	1.1	.3		963	.8	.3	.2	971	1.7	.3		968

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.8			846	.2			845	.1			843	.7			843
CATEGORY B	2.3	.5	.1	931	2.9	.2		935	.5	.1		944	1.7	.3		944

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.3	.0		4226	.3	.0		6761
CATEGORY B	1.6	.3	.1	4749	1.5	.3	.0	7605



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 130-310

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAR

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.4			930	.1			930	.4			930	.8			930
CATEGORY B	1.7	.2		1010	1.5	.1		1029	2.6	.8		1058	4.6	.4		1042

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.9	.1		930	1.0			930	.5			930				930
CATEGORY B	6.2	1.1	.1	1045	3.7	.8	.2	1041	2.2	.3		1039	.8			1037

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.7	.0		4650	.5	.0		7440
CATEGORY B	3.9	.7	.1	5225	2.9	.4	.0	8301

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 130-310

STATION NUMBER: 726525

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: APR

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.1			900	.2			900	.2			900	.9	.2		900
CATEGORY B	.7	.1		965	1.1	.1		981	1.6	.2		992	3.1	.8	.1	988

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	3.3	.3		900	2.4	.4		900	.4			900	.2			900
CATEGORY B	5.7	2.6	1.1	1012	5.5	2.1	.5	1003	1.7	.4		963	.9	.3	.2	969

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	1.5	.2		4500	1.0	.1		7200
CATEGORY B	3.5	1.2	.3	4958	2.6	.8	.2	7873

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 130-310

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: MAY

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A				930				930	.2			930	.8			930
CATEGORY B	.9	.1		1004	.5			1014	2.1	.8	.1	1023	3.3	1.0	.3	1008

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	1.3			930	1.4	.2		930	.5			930	.4			930
CATEGORY B	4.7	1.1	.4	1028	5.5	1.3	.4	1019	2.2	.6	.3	999	1.3	.3		1005

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.8	.0		4650	.6	.0		7440
CATEGORY B	3.5	.9	.3	5077	2.6	.6	.2	8100

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 130-310

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUN

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A				900	.1			900	.2	.1		900	.1			900
CATEGORY B	.2	.1		951	.2			933	.4	.2	.1	943	1.3	.1		931

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.1			900				900	.2			900	.3	.1		900
CATEGORY B	3.2	.8	.4	980	1.8	.2		970	.8	.4	.2	949	.5	.4	.1	946

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.1	.0		4500	.1	.0		7200
CATEGORY B	1.5	.4	.1	4773	1.1	.3	.1	7603

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 130-310

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: JUL

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.3	.1		930	.1			930				930	.3			930
CATEGORY B	1.2	.3	.2	953	.3	.1	.1	960	.5			975	2.1	.6	.1	967

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.2			930	.4	.1		930	.8	.1		930	.1			930
CATEGORY B	3.2	1.0	.3	1030	2.9	1.0	.6	1036	2.4	1.2	.7	999	.8	.2		978

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.3	.0		4650	.3	.0		7440
CATEGORY B	2.2	.8	.3	5007	1.7	.6	.3	7898

G - 2 - 7

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 130-310

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: AUG

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.4			930				930				930	.2			930
CATEGORY B	1.0	.3	.2	973	.6			978	.1	.1		978	1.8	.3	.1	975

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.1			930	.4			930	.6	.2		930	.5	.1		930
CATEGORY B	3.2	1.2	.1	990	3.3	1.0	.2	986	2.1	.8	.4	992	1.0	.4	.1	985

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.3	.0		4650	.3	.0		7440
CATEGORY B	2.1	.7	.2	4921	1.7	.5	.1	7857

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 130-310

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: SEP

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.2			900	.1			900	.2	.1		900	.4			900
CATEGORY B	.2	.2		969	.6	.1		908	.6	.1	.1	978	2.1	.4	.1	961

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.7	.3	.1	900	1.3	.2	.1	900	.1			900				900
CATEGORY B	3.5	1.2	.4	968	3.1	1.3	.5	959	.7	.1		948	.5	.1		971

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.6	.1	.0	4500	.4	.1	.0	7200
CATEGORY B	2.0	.6	.2	4814	1.4	.4	.1	7722

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 130-310

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: OCT

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY P: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A				930				930	.1	.1		930	.5	.1		930
CATEGORY B	.2	.1		960	.4	.1		968	.7	.1	.1	989	1.4	.3		937

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	1.0	.2		930				930	.1			930				930
CATEGORY B	2.6	.6	.1	982	2.0	.1		961	.3	.2		975	.1			981

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.3	.1		4650	.2	.1		7440
CATEGORY B	1.4	.3	.0	4904	1.0	.2	.0	7813



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 130-310

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: NOV

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A				900	.3			900	.6	.1		900	.2			900
CATEGORY B	.6			944	1.2			944	1.5	.2	.1	953	.7	.2		952

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.2			900	.1			900	.1			900				900
CATEGORY B	1.8	.3		954	.4	.2		966	.9	.1		959	.1			970

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.2	.0		4500	.2	.0		7200
CATEGORY B	1.1	.2	.0	4784	.9	.1	.0	7642

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 130-310

STATION NUMBER: 726625 STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: DEC

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.8			930	.2			930	.2			930	1.0			930
CATEGORY B	1.2	.1		980	1.1			974	.7	.3		993	2.2	.6	.1	988

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	1.1			930	.5			930	.6			930	.1			930
CATEGORY B	3.3	1.1	.3	991	1.9	.4	.1	986	1.5	.4	.1	981	1.2			991

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.7			4650	.6			7440
CATEGORY B	1.9	.6	.1	4939	1.7	.4	.1	7884

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 130-310

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: MAR 81 - FEB 91  
MONTH: ALL

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.2	.0		10956	.2	.0		10956	.2	.1		10956	.5	.0		10956
CATEGORY B	.8	.1	.0	11638	.9	.1	.0	11708	1.2	.3	.1	11863	2.2	.5	.1	11792

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.9	.1	.0	10956	.7	.1	.0	10955	.4	.0		10953	.2	.0		10953
CATEGORY B	3.7	1.1	.3	11920	3.0	.8	.2	11842	1.4	.4	.2	11756	.8	.2	.0	11787

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE20	GE25	OBS	GE15	GE20	GE25	OBS
CATEGORY A	.5	.1	.0	54776	.4	.0	.0	87641
CATEGORY B	2.3	.6	.2	59173	1.8	.4	.1	94306



PPPPPPP	AAAAA	RRRRRRR	TTTTTTTTT	HH	HH
PPPPPPP	AAAAAAA	RRRRRRRR	TTTTTTTTT	HH	HH
PP PP	AA AA	RR RR	TT	HH	HH
PP PP	AA AA	RR RR	TT	HH	HH
PPPPPPP	AA AA	RRRRRRRR	TT	HHHHHHHHH	
PPPPPPP	AAAAAAAAA	RRRRRRRR	TT	HHHHHHHHH	
PP	AAAAAAAAA	RR RR	TT	HH	HH
PP	AA AA	RR RR	TT	HH	HH
PP	AA AA	RR RR	TT	HH	HH
PP	AA AA	RR RR	TT	HH	HH

PART H

DEGREE DAY SUMMARIES

DEGREE DAYS.

CREATED FROM HOURLY OBSERVATIONS (MAX+MIN/2 WHEN AVAILABLE), THESE TABLES GIVE THE THE NUMBER OF DEGREE DAYS FOR EACH MONTH IN EACH YEAR OF THE AVAILABLE PERIOD OF RECORD.

INCLUDED BENEATH EACH SUMMARY ARE STATISTICS BASED ON A 30-YEAR (1951-1980) POR (IF AVAILABLE). THE 30-YEAR POR PROVIDES AWS USERS WITH A SUMMARY CONSISTENT WITH OTHER STANDARD CLIMATIC PUBLICATIONS, NOTABLY THOSE OF THE NATIONAL CLIMATIC DATA CENTER (NCDC). NOTE THAT THE 30-YEAR POR WILL CHANGE TO 1961-1990 AS SOON AS DATA FOR DECEMBER 1990 HAS BEEN PROCESSED.

MONTHS WITH NO AVAILABLE DATA AND MONTHS WITH A VALUE OF ZERO APPEAR AS BLANKS IN THESE TABLES. ASTERISKS (\*\*\*\*) DENOTE AN INCOMPLETE MONTH WITH A DAY (OR DAYS) THAT CANNOT BE CALCULATED (FILLED IN) AUTOMATICALLY.

HEATING DEGREE DAYS.

ONE "HEATING DEGREE DAY" IS ASSIGNED TO REPRESENT EACH DEGREE THAT THE MEAN TEMPERATURE FALLS BELOW A DESIGNATED "BASE TEMPERATURE" OF 65 DEGREES\* FAHRENHEIT. FOR EXAMPLE, IF THE MEAN TEMPERATURE ON A GIVEN DAY IS 57 DEGREES, THAT DAY IS SAID TO HAVE 8 HEATING DEGREE DAYS.

COOLING DEGREE DAYS.

ONE "COOLING DEGREE DAY" IS ASSIGNED TO REPRESENT EACH DEGREE THAT THE TEMPERATURE RISES ABOVE A DESIGNATED "BASE TEMPERATURE" OF 65 DEGREES\* FAHRENHEIT. FOR EXAMPLE, IF THE MEAN TEMPERATURE FOR A GIVEN DAY IS 73 DEGREES, THAT DAY IS SAID TO HAVE 8 COOLING DEGREE DAYS.

\*65 DEGREES FAHRENHEIT HAS BEEN SELECTED AS THE NATIONWIDE STANDARD "BASE TEMPERATURE" AT WHICH (AT LEAST THEORETICALLY) NO HEATING OR COOLING IS REQUIRED. IF ANOTHER BASE TEMPERATURE IS USED IN THESE TABLES, IT WAS SPECIALLY REQUESTED BY THE STATION, AND IS NOTED.

NOTE 1. THESE SUMMARIES ARE NOT AVAILABLE FOR PART TIME PERIODS.

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

HEATING DEGREE DAYS  
FROM HOURLY OBSERVATIONS

BASE TEMPERATURE 65

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: JAN 40 - FEB 91

YEARS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1940	1547	1107	****	713	****	****	1	8	73	268	1004	1038	5759
1941	1194	1041	1024	571	150	109	****	15	222	527	754	1064	6671
1942	1158	1171	917	444	437	109	5	13	262	449	843	****	5808
1943	1129	851	1165	370	356	****	3	1	153	390	843	1063	6324
1944	1135	1255	1296	631	197	134	4	16	120	346	931	1174	7240
1945	1158	1102	828	676	376	257							4397
1948				431	310	89		9	65	404	892	1277	3477
1949	1730	1299	1017	407	199	70		6	149	526	537	1282	7222
1950	1697	982	1215	773	411	84	24	23	209	331	947	1092	7788
1951	1317	1001	1210	707	259	204	49	16	252	551	911	1426	7912
1952	1247	1047	1201	426	263	29	18	13	69	414	854	1001	6582
1953	986	1037	839	785	391	59	1	6	92	270	645	1006	6117
1954	1344	617	1123	553	347	97			98	521	598	931	6229
1955	1197	1229	1078	418	182	128		1	171	369	1146	1294	7233
1956	1258	1127	898	733	257			37	113	318	882	989	6612
1957	1624	1000	948	703	331	96		25	180	538	838	871	7154
1958	969	1182	1057	626	121	120	29	7	113	381	797	1125	6527
1959	1353	1193	815	624	362	51	7	1	257	620	1084	928	7295
1960	1241	1312	1124	515	262	60		9	143	380	803	1156	7005
1961	1099	851	770	674	310	19	1		325	462	871	1239	6621
1962	1347	1122	1111	470	227	54	5	40	155	365	737	1053	6686
1963	1604	946	773	578	241	24	2	4	52	212	753	1283	6472
1964	1110	1112	1123	576	276	115		75	221	435	913	1355	7311
1965	1191	1085	1374	561	305	48	5	18	406	329	827	1008	7157
1966	1644	1297	880	765	288	83		71	127	431	874	1100	7560

1967	1094	1008	872	585	466	146	23	13	141	468	891	1314	7021
1968	1298	1108	770	694	498	113	14	55	167	422	878	1415	7432
1969	1514	1063	1128	409	239	173			33	672	682	1021	6934
1970	1378	876	1092	701	286	69			236	642	925	1322	7527

1971	1473	1177	981	539	297	25	24		229	532	835	1229	7341
1972	1448	1146	798	588	305	44	50	17	143	566	925	1368	7398
1973	1152	969	814	641	320	61	11		224	410	989	1202	6793
1974	1271	899	834	525	308	63	1	26	212	339	772	1051	6301
1975	1204	1290	1120	698	295	86		7	186	490	928	1074	7378

1976	1263	883	965	526	299	95	1	3	113	575	954	1126	6803
1977	1579	827	864	485	152	5		31	132	445	954	1370	6844
1978	1714	1431	887	548	284	102	19	32	106	418	1050	1412	8003
1979	1761	1387	939	661	399	95	7	39	78	437	981	976	7760
1980	1385	1114	1065	508	240	49		13	125	474	699	978	6650

1981	968	974	789	377	321	67	20	5	110	527	694	1132	5984
1982	1524	1144	1038	707	417	193	3	26	225	521	927	1063	7788
1983	1031	767	877	722	413	133	6		222	475	857	1704	7207
1984	1122	848	975	664	393	121			259	513	759	1321	6975
1985	1297	1132	906	412	156	152	13	23	302	486	1311	1214	7404

1986	918	1088	621	572	258	31	1	1	195	376	966	998	6025
1987	976	857	938	351	165	36	9	56	123	456	642	1020	5629
1988	1290	1111	960	516	163	8		8	109	433	807	1089	6494
1989	1085	1381	1038	580	295	113	6	5	176	473	803	1354	7309
1990	942	962	848	584	374	72	10	4	102	536	743	1479	6656

1991	1447	728											2175
------	------	-----	--	--	--	--	--	--	--	--	--	--	------

MEAN	1294	1064	976	578	295	87	7	16	166	448	859	1169	
------	------	------	-----	-----	-----	----	---	----	-----	-----	-----	------	--

SD	228.58	177.51	158.62	117.26	88.38	54.00	11.91	18.63	76.54	97.79	140.55	175.83	
----	--------	--------	--------	--------	-------	-------	-------	-------	-------	-------	--------	--------	--

\*\*\*\*SPL 30YR SUMMATION (1951 -1980)\*\*\*\*

MEAN	1335	1077	982	594	293	77	8	18	163	449	866	1154	
------	------	------	-----	-----	-----	----	---	----	-----	-----	-----	------	--

SD	207.52	178.48	158.68	102.16	79.40	47.99	13.93	20.90	81.47	108.09	124.92	169.54	
----	--------	--------	--------	--------	-------	-------	-------	-------	-------	--------	--------	--------	--

H - 2 - 1A



OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

COOLING DEGREE DAYS  
FROM HOURLY OBSERVATIONS

BASE TEMPERATURE 65

STATION NUMBER: 726625

STATION NAME: ELLSWORTH AFB/RAPID CITY SD  
LST TO UTC: + 7

PERIOD OF RECORD: JAN 40 - FEB 91

YEARS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1940			****		****	****	399	256	156	4			815
1941					46	115	****	258	60				479
1942				7	7	25	230	206	63	8		****	546
1943			1	1	24	****	280	333	41	14			694
1944					50	80	20	222	38				593
1945						28							28
1948					52	68	247	275	157	3			802
1949				7	32	122	367	353	34	7			922
1950					4	107	137	170	76	8			502
1951				3	18	13	266	189	10	5			504
1952				16	20	180	256	257	164				893
1953					14	140	260	243	66	34			757
1954					20	78	428	269	70	8			873
1955				5	33	66	395	373	131	23			1026
1956					30	263	247	197	73	19			829
1957					11	50	334	230	25	23			673
1958				1	48	53	105	331	106	33			677
1959				2	15	210	294	347	89				957
1960					23	80	384	261	126	14			888
1961				3	39	236	266	396	62	11			1013
1962				15	9	94	157	234	43	2			554
1963					15	95	294	298	110	48			860
1964					26	69	317	179	24				615
1965					16	46	213	166	18	6			465
1966					15	139	403	144	77	4			782

1967			9	24	219	215	96	6	569
1968				52	261	121	29	4	467
1969			42	37	231	347	112		769
1970			12	115	278	316	86	6	813
1971				1	106	201	348	66	722
1972				29	112	151	240	53	585
1973				9	114	267	360	26	778
1974		2		5	184	442	172	43	853
1975				14	68	383	250	24	760
1976				4	90	287	279	111	777
1977				41	184	328	119	70	742
1978				15	89	211	217	176	708
1979		2		10	94	174	137	109	529
1980		7		31	148	389	185	76	852
1981			4	4	65	278	198	84	634
1982				3	20	222	172	39	456
1983				8	62	307	416	82	875
1984				12	44	249	340	52	699
1985			12	58	74	363	185	67	759
1986		1		21	142	241	266	6	677
1987			41	45	141	353	151	51	783
1988			7	68	391	410	326	62	1267
1989			15	8	95	382	252	79	831
1990			2	3	121	216	294	149	788

MEAN		0	3	21	104	283	251	74	7
SD		.20	6.97	17.07	70.50	82.93	76.50	42.30	10.43

\*\*\*\*\*SPL 30YR SUMMATION (1951 -1980)\*\*\*\*\*

MEAN		1	19	107	281	247	75	9
SD		4.07	12.60	62.57	86.11	79.05	42.84	12.19

H - 3 - 1A

A W S CLIMATIC BRIEF  OCT 91	STATION NAME: ELLSWORTH AFB/RAPID CITY SD											FIELD ELEV: 3170 FT			
	LATITUDE/LONGITUDE: 44 09 N 103 06 W											STATION MSC: 726625			
	HOURLY OBS POR: MAR 81 - FEB 91											CALL SIGN: KRCA			
	SUMMARY OF DAY POR: FEB 39-JUN 45, APR 48-FEB 91											SUPERSEDES: DEC 87			
HOURS SUMMARIZED: 0000 - 2300 LST															
LST TO UTC: +07															
MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	YOR	
EXTRM MAX TEMP (F)	74	75	82	91	97	108	111	108	103	94	77	74	111	50	
MEAN MAX TEMP (F)	32	36	43	56	67	76	86	85	74	62	46	37	58	50	
MEAN TEMP (F)	23	27	33	46	56	65	74	72	62	50	36	27	48	50	
MEAN MIN TEMP (F)	12	16	23	34	45	54	61	60	49	39	26	17	36	50	
EXTRM MIN TEMP (F)	-25	-23	-18	5	20	31	42	40	19	13	-14	-29	-29	50	
D/W TEMP GE 90 (F)	0	0	0	#	1	3	11	10	3	#	0	0	28	50	
D/W TEMP GE 80 (F)	0	0	#	1	4	11	24	23	11	3	0	0	77	50	
D/W TEMP LT 33 (F)	29	26	25	12	2	#	0	0	1	8	22	28	153	50	
D/W TEMP LT 0 (F)	7	3	1	0	0	0	0	0	0	0	1	3	15	50	
HEATING DEGREE DAYS	1294	1064	976	578	295	87	7	16	166	448	859	1169	6959	52	
COOLING DEGREE DAYS	0	0	#	3	21	104	283	251	74	7	0	0	743	52	
MEAN DEWPOINT TEMP (F)	13	14	21	28	40	48	52	51	40	31	20	11	31	10	
MEAN WET BULB TEMP (F)	22	23	30	38	48	56	61	60	50	41	30	20	40	10	
99.95% WCPA (FT)	3971	3950	3992	3950	3888	3712	3670	3650	3825	3836	3981	3950	3865	10	
MEAN REL HUM 07 LST(%)	61.0	62.1	65.9	58.9	65.5	63.6	59.2	61.9	61.8	62.6	61.7	61.3	62.1	10	
MEAN REL HUM 13 LST(%)	49.0	46.8	50.3	41.3	48.3	45.7	37.6	38.1	39.4	41.4	45.2	50.2	44.5	10	
MAX 24HR PRECIP (IN)	1.22	1.02	2.20	1.84	3.09	3.25	3.23	1.34	1.93	2.10	1.05	.48	3.25	46	
MAX PRECIP (IN)	1.74	2.19	3.12	5.59	9.81	7.74	5.73	4.10	3.57	3.54	2.87	1.14	27.23	46	
MEAN PRECIP (IN)	.46	.61	.95	1.84	2.93	3.02	1.96	1.51	1.09	.95	.65	.42	16.57	46	
MIN PRECIP (IN)	#	#	.05	.02	.23	.84	.04	.07	.01	.01	.08	#	9.20	46	
D/W PRECIP GE .01 (IN)	6	6	8	8	11	11	8	7	6	5	5	6	87	46	
D/W PRECIP GT .50 (IN)	#	1	1	1	2	2	1	1	1	1	1	0	12	46	
MAX 24HR SNFL (IN)	6.9	9.7	14.2	18.0	4.5	5.9	0	0	2.1	5.0	12.0	5.8	18.0	44	
MAX SNFL (IN)	18.7	19.7	28.7	42.8	7.1	6.1	0	0	2.7	8.2	30.5	11.0	89.5	44	
MEAN SNFL (IN)	4.7	6.9	8.9	6.8	.6	.2	0	0	.1	1.4	5.3	5.3	40.5	44	
D/W SNFL GE .1 (IN)	6	6	7	4	1	#	0	0	1	1	4	6	36	44	
D/W SNFL GE 1.5 (IN)	1	2	2	1	1	#	0	0	#	1	1	1	10	44	
MAX DLY SNO DEPTH (IN)	13	15	15	23	10	6	0	0	2	6	17	14	23	44	
PRVING WND DIR (DEG)	32-34	32-34	32-34	32-34	32-34	32-34	14-16	32-34	32-34	32-34	32-34	32-34	32-34	10	
MEAN WND SPD (KTS)	8	8	9	9	9	8	7	7	8	7	7	8	8	10	
MAX WND SPD (KTS)	69	62	78	72	65	70	70	66	76	62	66	62	78	44	
SKY COVER GT 5/10 (%)	51.8	54.7	59.3	55.5	56.7	48.2	43.5	39.7	43.3	48.2	54.3	51.0	50.5	10	
D/W THUNDERSTORMS	0	0	1	1	5	10	10	8	3	1	#	#	39	46	
D/W FOG (VSBY LT 7 MI)	5	7	7	6	5	4	2	2	3	3	4	5	53	46	
LEGEND: ANN = ANNUAL D/W = MEAN NUMBER OF DAYS WITH # = BASED ON LESS THAN FULL MONTHS ** = INSTANTANEOUS PEAK WINDS * = DATA NOT AVAILABLE POR/YOR = PERIOD/YEARS OF RECORD WCPA = WORST CASE MAXIMUM PRESSURE ALTITUDE # = LESS THAN 0.5 DAYS OR TRACE AS APPLICABLE \$ = PERCENTAGE OF CALM WINDS GREATER THAN OR EQUAL TO MEAN WIND DIRECTION															

PERCENT OCCURRENCE FREQUENCY OF CEILING AND VISIBILITY															
MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	YOR
CIG LT 3000 FT AND/OR VSBY LT 3 MI	LST														
	00 - 02	13.9	17.3	23.2	13.4	12.8	5.0	3.3	3.7	10.8	8.4	14.2	16.9	11.9	10
	03 - 05	14.1	17.4	24.0	14.7	14.8	7.4	4.9	4.7	11.4	9.8	13.4	16.2	12.7	10
	06 - 08	13.4	18.7	24.7	17.9	16.0	7.4	6.1	5.1	13.7	11.7	13.9	16.6	13.8	10
	09 - 11	13.0	17.1	22.9	17.9	14.9	8.2	4.9	3.7	14.6	11.4	15.6	15.1	13.3	10
	12 - 14	11.4	14.7	19.8	16.4	13.7	6.7	3.5	2.3	14.0	9.9	14.3	12.6	11.6	10
	15 - 17	11.2	13.1	18.9	14.4	13.0	4.4	3.1	1.0	11.9	8.8	12.6	11.3	10.3	10
	18 - 20	12.0	15.4	18.9	14.6	11.8	3.7	3.3	.9	9.9	7.4	14.4	14.1	10.5	10
	21 - 23	13.1	16.8	20.5	14.7	12.6	4.1	2.8	2.6	9.9	8.7	15.8	15.7	11.4	10
	ALL	12.8	16.3	21.6	15.5	13.7	5.9	4.0	3.0	12.0	9.5	14.3	14.8	11.9	10
CIG LT 1500 FT AND/OR VSBY LT 3 MI	00 - 02	9.5	14.1	18.6	10.9	8.1	4.0	2.4	2.0	8.6	6.1	11.9	12.9	9.1	10
	03 - 05	11.0	12.6	19.0	13.0	10.2	5.2	4.1	2.9	9.3	7.1	12.0	11.6	9.8	10
	06 - 08	10.2	12.6	20.0	14.7	12.5	4.7	4.8	3.8	10.8	8.6	11.9	12.2	10.6	10
	09 - 11	9.8	14.2	18.9	13.2	11.4	4.9	3.5	2.7	11.0	8.3	12.3	12.2	10.2	10
	12 - 14	8.4	10.8	14.6	10.9	9.7	3.8	1.9	1.5	8.8	5.9	10.4	9.6	8.0	10
	15 - 17	7.7	9.7	12.8	10.6	7.8	2.6	2.0	.8	6.9	4.8	8.8	9.1	7.0	10
	18 - 20	7.7	11.7	13.3	10.3	7.7	2.4	1.3	.8	6.2	5.4	11.1	11.5	7.4	10
	21 - 23	8.4	13.6	17.4	10.7	7.6	2.7	1.6	2.2	6.7	6.1	12.6	11.6	8.4	10
	ALL	9.1	12.4	16.8	11.8	9.4	3.8	2.7	2.1	8.5	6.5	11.4	11.3	8.8	10
CIG LT 1000 FT AND/OR VSBY LT 2 MI	00 - 02	7.4	11.8	16.1	9.1	6.7	3.2	1.7	1.5	6.8	5.5	10.7	10.6	7.6	10
	03 - 05	9.0	10.8	15.4	11.0	9.2	4.9	3.5	2.3	7.4	6.1	10.7	10.4	8.4	10
	06 - 08	8.3	11.0	16.6	11.0	10.2	4.0	4.0	2.4	8.8	6.5	10.3	10.4	8.6	10
	09 - 11	8.5	11.0	15.2	9.3	8.0	3.1	2.8	1.5	8.0	6.5	10.4	10.4	7.9	10
	12 - 14	7.6	7.3	11.4	8.6	6.6	2.2	1.2	.6	5.3	4.5	8.4	8.1	6.0	10
	15 - 17	6.5	6.9	9.5	7.8	5.1	2.0	.9	.8	5.2	3.8	7.4	7.8	5.3	10
	18 - 20	6.3	8.7	11.4	9.0	5.6	2.3	1.3	.8	5.2	3.5	9.4	8.6	6.0	10
	21 - 23	6.7	11.2	15.7	9.4	5.9	2.7	1.4	1.3	5.2	4.7	11.3	8.9	7.0	10
	ALL	7.5	9.8	13.9	9.4	7.2	3.1	2.1	1.4	6.5	5.1	9.8	9.4	7.1	10
CIG LT 200 FT AND/OR VSBY LT 1/2 MI	00 - 02	1.5	2.6	3.9	.7	.9	1.0	.5	.2	1.2	.6	2.7	1.5	1.4	10
	03 - 05	1.9	2.0	4.1	.9	1.1	.3	.9	.5	2.1	1.1	2.3	1.1	1.5	10
	06 - 08	2.8	2.1	4.4	2.0	.4	.3	.1	.1	2.1	1.2	3.3	.2	1.6	10
	09 - 11	1.6	1.8	3.5	1.2	.3	.0	.0	.0	.6	1.0	1.6	.6	1.0	10
	12 - 14	2.0	.8	1.9	.8	.1	.0	.0	.0	.0	.3	.8	.9	.6	10
	15 - 17	.9	1.3	1.6	1.2	.0	.0	.0	.0	.0	.4	.9	1.6	.7	10
	18 - 20	1.0	1.8	2.7	1.1	.0	.0	.0	.0	.4	.2	1.4	1.3	.8	10
	21 - 23	1.0	1.7	3.5	.9	.3	.2	.3	.0	.8	.3	2.0	1.1	1.0	10
	ALL	1.6	1.8	3.2	1.1	.4	.2	.2	.1	.9	.6	1.9	1.0	1.1	10
HURRICANES/TROPICAL STORMS OBSERVED : NONE															
REMARKS : @															

## DISTRIBUTION

HQ SAC/DOW, 901 SAC BLVD, STE M138, Offutt AFB, NE 68113-5000 .....1  
8AF/DOW, Barksdale AFB, LA 71110-5000 .....1  
28OSS/DOW, Ellsworth AFB, SD 57706-5000 .....1  
USAFETAC/LDD, Scott AFB, IL 62225-5438 .....1  
OL-A, USAFETAC, Federal Building, Asheville, NC 28801-2723 .....2  
DTIC-FDAC, Cameron Station, Alexandria, VA 22304-6145 .....2  
AWSTL, Scott AFB, IL 62225-5438.....3